A reconstruction of the tables of Briggs and Gellibrand's *Trigonometria Britannica* (1633)

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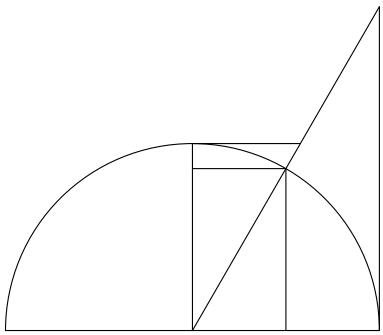

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I ever rest a lover of all them that love the Mathematickes

Henry Briggs, preface to [55]

1 Briggs' first tables (1617)

Henry Briggs (1561–1631)[1] is the author of the first table of decimal logarithms, published in 1617, of the first extensive table of decimal logarithms of numbers, and of one of the first two extensive tables of decimal logarithms of trigonometric functions.

After having been educated in Cambridge, Briggs became in 1596 the first professor of geometry at Gresham College, London [87, p. 120], [75, p. 20], [94]. Gresham College was England's scientific centre for navigation, geometry, astronomy and surveying.[2] Briggs stayed there until 1620, at which time he went to Oxford, having been appointed the first Savilian Professor of Geometry in 1619 [75, p. 24].

While at Gresham College, Briggs became friends with Edward Wright. He also seems to have spent time doing research in astronomy and navigation [75, pp. 29–30]. Briggs had in particular published several tables for the purpose of navigation in 1602 and 1610 [95]. Several of Briggs' tables were published under the name of others [75, p. 8].[3]

In 1614, John Napier (1550–1617) published his *Mirifici logarithmorum canonis descriptio*, the description of his table of logarithms [54, 70]. It is through this work that Briggs was early exposed to the theory of logarithms. After Napier's publication, Briggs went to visit him in Scotland in the summers of 1615 and 1616 and they agreed on the need to reformulate the logarithms, a task that Briggs took over.

Briggs published his first table of decimal logarithms in 1617 [9, 63]. It was a small booklet of 16 pages, of which the first page was an introduction, and the remaining 15 pages were tables. Briggs' table gave the decimal logarithms of the integers 1 to 1000 to 14 places.

2 From numbers to trigonometric functions

In 1624, Briggs published his *Arithmetica logarithmica* [10]. This work was incomplete, and it is thought that Briggs had completed a large portion of the interval 20001–90000 in the subsequent years. But it is likely that Vlacq's own table in 1628 postponed Briggs' project.

According to Hallowes [38, p. 85], in 1628 Briggs must have felt that he could not complete both the tables of the logarithms of numbers and the logarithms of trigonometric functions, and he must then have turned exclusively to the trigonometric functions.

So, Briggs worked on tables of logarithms of trigonometric functions, first introduced by Gunter in 1620 [36]. Briggs' tables were completed by Gellibrand and published in

[1] Briggs was baptized on February 23, 1560 (old style), which is 1561 new style. He died on January 26, 1630 (old style), which is 1631 new style [46].

[2] Gresham College was a very fluctuating institution, and the main reason for its claim to scientific responsability was the work and influence of Briggs. The flourishing period of Gresham College ended with the death of Henry Gellibrand in 1636 [2, p. 20].

[3] For more biographical information on Briggs, consult Smith [73], Ward [87], Sonar [75] and Kaunzner [47]. Sonar gives an overview of Briggs' works prior to his tables of logarithms [75].

1633. That same year, Vlacq published his own tables of logarithms of trigonometric functions. Although Briggs and Vlacq both used a division of 90 degrees, Briggs divided the degrees centesimally, whereas Vlacq used the usual sexagesimal division.

3 Briggs' *Trigonometria britannica* (1633)

The *Trigonometria britannica* [11] published in 1633 contains the sines to 15 places, the tangents and secants to 10 places, the logarithms of the sines to 14 places and the logarithms of the tangents to 11 places, every hundredth of a degree.[4]

The introduction to the tables consists of two books, one of explanations [11, pp. 1–60], and one of applications [11, pp. 61–110], the latter written by Henry Gellibrand[5] after Briggs' death.[6] The *Trigonometria britannica* was published in 1633 by Vlacq in Holland.

An English translation of the second book of the *Trigonometria britannica* was published in 1658 as part of John Newton's *Trigonometria britannica* [57]

3.1 The computation of sines

The first book of the *Trigonometria britannica* [11, pp. 1–60] is mainly concerned with the construction of sines.[7]

In chapter [11, pp. 2–3], Briggs first considered Ptolemy's method of computing sines. This method is based on Ptolemy's theorem according to which the chord of $a - b$ can be obtained from the chords of a and b.

Briggs' sine is of course a "line sines,"[8] that is the length of the opposite side of a triangle of which the hypothenuse is some given value such as 10^{10}. It is however possible to argue between two interpretations. In the first interpretation, there is indeed a radius of 10^{10}. In the second interpretation, the radius is considered to be 1, but given with 10 digits, the position of the unit being omitted. It is the second interpretation which should be favored, for in chapter 1 of the *Trigonometria britannica*, Briggs writes that the radius is taken as one part, and that it is divided in a number of smaller parts [11, p. 1]. Further computations confirm this interpretation.[9]

[4] After Briggs, more accurate tables of sines, tangents and secants were computed by Andoyer to 15 places and with a step of $10''$ [27, p. 178–180], [4]. Andoyer computed also the logarithms of sines and tangents to 14 places and with a step of $10''$ [27, p. 200–201], [3]. Some authors have computed sines to a larger number of decimals, but not with degrees, or only for very large steps.

[5] Gellibrand (1597–1637) had become professor of astronomy at Gresham college after Edmund Gunter's death [87]. Besides completing the *Trigonometria britannica*, he also worked on the variation of the magnetic declination. See also the biographical note by Aubrey [5].

[6] Briggs' introduction was translated in English and annotated by Ian Bruce, see `http://www.17centurymaths.com`.

[7] Most of the present discussion is borrowed from Ian Bruce's translation of the *Trigonometria britannica*, and from Bruce's article [11, 13].

[8] Although some authors take the radius of the circle to be 1, one has to wait for Lardner's trigonometry (1826) to see the sines defined as *ratios* [20, p. 526]. This should be clearly distinguished from authors such as Prony, who, for reasons of convenience, give the sines as "parts of the radius" (ca. 1795), at the same time suggesting that there are different definitions [71].

[9] Nevertheless, several authors claim that Briggs' radius was not 1. According to Gerhardt, for instance, the radius was 10^{15} for the sines and 10^{10} for the tangents and secants [29, pp. 115–116].

3.1.1 Multiplication of arcs

In the third chapter of the *Trigonometria britannica* [11, pp. 3–5], Briggs considers the triplication of an arc and shows that $c(3a) = 3p - p^3$, where $p = c(a)$ is the chord of arc a and $c(3a)$ is the chord of $3a$. This formula is only true if the radius of the circle is 1, and Briggs writes that the radius is 1. In chapter 5, he considers similarly quintuplication.

The fact that the radius is 1 is also confirmed by the way Briggs notes his examples of triplication. In his first example, he considers the radius 10000000000 and the chord of 16°, 02783462019. The square of that chord is noted 0077476608112 and its cube 0021565319604. The subtended chord is then tripled 08350386057 and the cube 00215653196 is subtracted, the result being 08134732861. All these numbers are aligned as follows by Briggs [11, p. 4]:

$$\begin{array}{c}
10000000000\\
02783462019\\
0077476608112\\
0021565319604\\
\cdots\\
08350386057\\
00215653196\\
08134732861
\end{array}$$

It would be possible to interpret the various values differently, for instance 02783462019 as 2783462019, but for the reason given above, Briggs means 0.2783462019.

In the sequel, we will always consider that the radius of the circle is 1, but that the sines, tangents and secants are given in units of smaller parts, for this is what Briggs meant.

3.1.2 Division of arcs

After having considered the triplication and quintuplication, Briggs considered again the equations, but now in order to divide an arc into 3 (chapter 4 [11, pp. 5–10]), 5 (chapter 6 [11, pp. 12–18]), and 7 (chapter 7 [11, pp. 19–20]) parts. For instance, if p is the chord of an angle a, we have seen that the chord of $3a$ is $c(3a) = 3p - p^3$, and trisecting an angle amounts to solve a cubic equation [13, p. 461]. For a division by 5, the equation is $c(5a) = 5p - 5p^3 + p^5$. Then we have $c(7a) = 7p - 14p^3 + 7p^5 - p^7$. And so on. Even sections lead to the equations $c(2a) = \sqrt{4p^2 - p^4}$, $c(4a) = \sqrt{16p^2 - 20p^4 + 8p^6 - p^8}$, and so on. The general case is considered in chapter 8 [11, pp. 20–28] and the coefficients of all these equations can be obtained from a table given by Briggs [11, p. 23]. This table can easily be extended.

Briggs' work is certainly partly inspired from François Viète's *Ad angulares sectiones* which has such a table [83, p. 295].[10] Viète is in particular explicitely quoted on the cover of the *Trigonometria britannica*.

It is interesting to observe that Jost Bürgi also obtained another similar table for the same purpose, certainly independently, and described it in his "Coss," probably around 1598 [50, pp. 33–35] [58, p. 77].

[10] An English translation by Ian Bruce is available on `http://www.17centurymaths.com`.

3.1.3 Solving the equations

Like Bürgi before him [50], Briggs develops a method to find some roots of these equations by iteration. In the case of a cubic $x^3 - 3x = a$ which is handled in the chapter 4 of the *Trigonometria britannica*, Briggs considers a first approximation b of a root made of one significative digit. He then writes $L = b + c$ for a new approximation. Replacing x by L in the equation and ignoring the terms in c^2 and c^3, Briggs obtains an approximation of $c \approx \frac{a-b^3+3b}{3b^2-3}$ of which he keeps one significative (non zero) digit. The process continues until the approximation is accurate enough.

This happens to be exactly the so-called Newton-Raphson method, with the constraint that only one new digit is obtained at a time. The Newton-Raphson method actually goes back at least to Viète.[11] In modern terms, the method goes as follows [81, 96]: if x_0 is an approximation of a root of $f(x) = 0$, then a new approximation x_1 is given by

$$x_1 = x_0 - \frac{f(x_0)}{f'(x_0)}.$$

If we set $f(x) = x^3 - 3x - a$, then $f'(x) = 3x^2 - 3$, and we obtain Briggs' algorithm in the case of trisection.

The sixth chapter of the *Trigonometria britannica* is devoted to the quinquisection of arcs and expounds the same method. Briggs considers the equation $x^5 - 5x^3 + 5x = a$, a first approximation b of a root, and he obtains a new approximation $L = b + c$ with $c \approx \frac{a-b^5+5b^3-5b}{5b^4+15b^2+5}$.

3.1.4 The fundamental sines

Starting with the chord of 60° which is equal to 1 (in a circle of radius 1), Briggs used trisection obtaining $c(20°)$, 5-fold multiplication obtaining $c(100°)$, bisection ($c(50°)$, $c(25°)$, $c(12°30')$, $c(6°15')$), triplication ($c(18°45')$, $c(56°15')$), duplication ($c(37°30')$, $c(75°)$), and again triplication ($c(112°30')$). By 5-fold multiplication, he obtained $c(31°15')$, then by duplication $c(62°30')$ and $c(125°)$, and by triplication $c(93°45')$. By 7-fold multiplication, he obtained $c(43°45')$ and by duplication $c(87°30')$. Still multiplying $c(6°15')$ by 11, 13, 17 and 19, he obtained $c(68°45')$, $c(81°15')$, $c(106°15')$, and $c(118°45')$. The halves of all these chords are the sines of $3°\frac{1}{8}$, $6°\frac{2}{8}$, $9°\frac{3}{8}$, ..., $62°\frac{1}{2}$, which he obtained accurate to 22 places. These values are given in the chapter 13 of the *Trigonometria britannica* [11, p. 42].

3.1.5 Division of the quadrant in 144 parts and first quinquisection

In chapter 12 of the *Trigonometria britannica* [11, pp. 35–41], Briggs describes his method of quinquisection using differences.[12] This is the same method as that expounded in the *Arithmetica logarithmica*, and that we have described elsewhere [68]. The method of

[11] On Newton-Raphson's method, and Viète's influence, see Whiteside [90, pp. 218–222], [91, p. 665]. Newton appears to have never read Briggs' works [90, p. 164]. Newton owned Vlacq's *Trigonometria artificialis*, but not Briggs' *Trigonometria britannica* [91, p. 193].

[12] In this chapter, Briggs observes the proportionality between the second differences and the sines and this relationship can be used to construct the differences. About this relationship, see Delambre [18, p. 47–48], [22], as well as our study of the *Tables du cadastre* [71].

quinquisection is equivalent to Newton's forward difference formula, but Briggs didn't know Newton's formula [68].

So, in a first stage (chapter 13 of the *Trigonometria britannica* [11, p. 42]), Briggs used this method to compute the sines from $0°$ to $62°\frac{1}{2}$, every $0.625° = \frac{6°15'}{5}$ and to 19 decimal places. The remaining values of the quadrant could be found easily with

$$\sin x + \sin(60° - x) = \sin(60° + x).$$

So, eventually, the quadrant was divided into 144 parts [11, pp. 43–44].

If the sines at interval of $1°15'$ are taken, that is, if the quadrant is divided into 72 parts, and if the intervals are divided again three times using the quinquisection with differences, we reach an interval of $0°.01$. The quadrant is then divided into 9000 parts. If instead it was desired to give the sines every thousandths of a degree, we can start with the division into 144 parts and do four quinquisections with differences, which gives a division of the quadrant in 90000 parts.

Briggs gives an example where the quinquisection is applied to divide an interval of $0.625°$ and he uses up to the 7th differences [11, p. 45]. In the second quinquisection, he uses up to the 6th differences [11, p. 46], in the third quinquisection he uses up to the 5th differences [11, p. 47], and in the last quinquisection he stops at the 4th differences [11, p. 48]. When starting with an interval of $1°15'$, Briggs has certainly used only lower differences.

3.2 The computation of tangents and secants

The computation of the tangents and secants is described in chapter 15 of the *Trigonometria britannica* [11, pp. 50–52]. Once the sines have been computed for the 72 or 144 divisions of the quadrant, Briggs computes the tangents and secants of the same angles in the first half of the quadrant with:

$$\frac{r}{\tan_b(90° - x)} = \frac{\sin_b x}{\sin_b(90° - x)} \quad \text{(TB, Prop. 1, p. 50)}$$
$$\frac{\sin_b x}{r} = \frac{r}{\sec_b(90° - x)} \quad \text{(TB, Prop. 2, p. 50)}$$

where r is the radius and the sines, tangents and secants are expressed in parts of the radius. We have $\sin_b x = r \sin x$, $\sec_b x = r \sec x$ and $\tan_b x = r \tan x$. These functions were not used previously, because the previous equations were true even with the modern functions. Note that the name 'cosine' is not used by Briggs. It was first used by Gunter in 1620 [36].

Briggs also gave the two propositions:

$$\frac{r}{\sin_b x} = \frac{\sec_b x}{\tan_b x} \quad \text{(TB, Prop. 3, p. 50)}$$
$$\frac{\tan_b x}{r} = \frac{r}{\tan_b(90° - x)} \quad \text{(TB, Prop. 4, p. 50)}$$

For the remaining part of the quadrant, Briggs used the following relations with which the tangents and secants of the upper quadrant can be computed from those of the lower

quadrant. These relations are true whether for the modern functions, or if the values of the functions are taken with smaller units.

$$\sec x = \tan x + \tan\left(\frac{90^\circ - x}{2}\right) \quad \text{(TB, Prop. 5, p. 50)}$$

$$\sec x + \tan x = \tan\left(x + \frac{90^\circ - x}{2}\right) \quad \text{(TB, Prop. 6, p. 51)}$$

$$\sec x - \tan x = \tan\left(\frac{90^\circ - x}{2}\right) \quad \text{(TB, Prop. 7, p. 51)}$$

$$2\tan x + \tan\left(\frac{90^\circ - x}{2}\right) = \tan\left(x + \frac{90^\circ - x}{2}\right) \quad \text{(TB, Prop. 8, p. 51)}$$

Like for the sines, Briggs then applied quinquisection width differences to obtain intervals of 0.01°. However, although Briggs does not mention it, it is likely that Briggs only used quinquisection for the first half of the quadrant and filled the second half using the above formulæ. For instance, the value of $\tan(89.^\circ 99)$ can be obtained from $\tan(89.^\circ 98)$ and $\tan(0.^\circ 01)$, $\tan(89.^\circ 98)$ can be obtained from $\tan(89.^\circ 96)$ and $\tan(0.^\circ 02)$, $\tan(89.^\circ 96)$ can be obtained from $\tan(89.^\circ 92)$ and $\tan(0.^\circ 04)$, etc. There is an accumulation of errors, but each initial tangent must be computed with these errors in view. It is not known to what accuracy Briggs computed the tangents and secants, but the printed values have 10 decimal places. Briggs may have compared the quinquisection with the use of the above formulæ to decide which one was most advantageous.

3.3 The logarithms of sines

The chapter 16 of the *Trigonometria britannica* [11, pp. 52–55] is devoted to the computation of the logarithms of the sines.

For their computation, Briggs takes the total sine to be 10^{15}, or more exactly 1, with 15 zeros, or 10^{15} smaller parts. Its logarithm is taken to be 10. In other words, the total sine is actually considered to be 10^{10} for the purpose of the logarithms. This was already Gunter's convention in 1620 [36] and might be called the convention of "shifted logarithms." For Gunter and Briggs, $\log \sin_b x = \log(10^{10} \sin x) = 10 + \log \sin x$.[13] The characteristic is here the number of integer digits of $10^{10} \sin x$ minus one. Briggs writes that the whole sine has the characteristic 10, but that the characteristic of the remaining sines until $\arcsin 0.1 = 5^\circ 44'$ is 9, then it is 8, and so on.[14]

Now, Briggs first computes the logarithms of the 72 sines of the quadrant, at intervals of $1^\circ 15'$ [11, p. 55]. The computation of the logarithms is done using the radix method described in chapter 14 of Briggs' *Arithmetica logarithmica*.

Once the logarithms of these 72 sines are known, quinquisection is used to obtain the logarithms of most of the other sines of the quadrant. The quinquisection will however

[13]This is what Briggs writes, in Ian Bruce's translation: "the number of places in this table is more than the characteristic, as we would have the sines themselves more accurate, and finally truly five places are added on to the sines (...)." I assume that Gunter and Briggs chose this correspondence in order to make sure that the characteristic has only one digit, except for the total sine.

[14]In more recent tables, the logarithms of sines were sometimes rendered positive by adding 10. This may take its origin in Gunter and Briggs' convention, but it is still slightly different, and Gunter and Briggs' values are only similar because they chose the total sine to mean 10^{10}.

not work for the first logarithms, because the differences have a too large variation.

Briggs therefore uses the following relation (which he obtains geometrically):

$$\frac{\sin_b\left(\frac{\theta}{2}\right)}{\sin_b\theta} = \frac{r/2}{\sin_b\left(90^\circ - \frac{\theta}{2}\right)}$$

or in modern terms

$$\frac{\sin\left(\frac{\theta}{2}\right)}{\sin\theta} = \frac{\sin 30^\circ}{\sin\left(90^\circ - \frac{\theta}{2}\right)}$$

and therefore

$$\log\sin_b\left(\frac{\theta}{2}\right) = \log\sin_b 30^\circ + \log\sin_b\theta - \log\sin_b\left(90^\circ - \frac{\theta}{2}\right)$$

Briggs therefore obtains the logarithms (of the sines) of small angles by the logarithms (of the sines) of larger angles computed beforehand.

3.4 The logarithms of tangents and secants

In the 17th and last chapter of Briggs' part in the *Trigonometria britannica* [11, pp. 56–60], Briggs describes the computation of the logarithms of tangents and secants. This chapter partly overlaps chapter 15, probably because Briggs did no longer have the time to organize it.

Briggs starts by giving a number of properties of the secants and tangents (the first eight properties being only additive are given in modern terms):

$$\frac{\tan x + \tan(90^\circ - x)}{2} = \sec(x - (90^\circ - x)) \quad \text{(TB, Prop. 1, p. 56)}$$

$$\frac{\tan x - \tan(90^\circ - x)}{2} = \tan(x - (90^\circ - x)) \quad \text{(TB, Prop. 2, p. 56)}$$

$$\sec x + \tan x = \tan\left(x + \frac{90^\circ - x}{2}\right) \quad \text{(TB, Prop. 3, p. 56)}$$

$$\sec x - \tan x = \tan\left(\frac{90^\circ - x}{2}\right) \quad \text{(TB, Prop. 4, p. 56)}$$

$$\tan x + \tan\left(\frac{90^\circ - x}{2}\right) = \sec x \quad \text{(TB, Prop. 5, p. 56)}$$

$$2\tan x + \tan\left(\frac{90^\circ - x}{2}\right) = \tan\left(x + \frac{90^\circ - x}{2}\right) \quad \text{(TB, Prop. 6, p. 56)}$$

$$\tan(90^\circ - x) - \tan x = 2\tan((90^\circ - x) - x) \quad \text{(TB, Prop. 7, p. 57)}$$

$$\tan(90^\circ - x) - 2\tan((90^\circ - x) - x) = \tan x \quad \text{(TB, Prop. 8, p. 57)}$$

The following equations involve mean proportionals:

$$\frac{\tan_b x}{r} = \frac{r}{\tan_b(90^\circ - x)} \quad \text{(TB, Prop. 9, p. 57)}$$
$$\frac{\sin_b x}{\sin_b(90^\circ - x)} = \frac{r}{\tan_b(90^\circ - x)} \quad \text{(TB, Prop. 10, p. 57)}$$
$$\frac{r}{\sin_b x} = \frac{\sec_b(90^\circ - x)}{r} \quad \text{(TB, Prop. 11, p. 57)}$$
$$\frac{\sin_b x}{\tan_b x} = \frac{r}{\sec_b x} \quad \text{(TB, Prop. 12, p. 57)}$$
$$\frac{\sin_b x}{\tan_b x} = \frac{\tan_b(90^\circ - x)}{\sec_b(90^\circ - x)} \quad \text{(TB, Prop. 13, p. 58)}$$
$$\frac{r}{\sec_b x} = \frac{\tan_b(90^\circ - x)}{\sec_b(90^\circ - x)} \quad \text{(TB, Prop. 14, p. 58)}$$

These properties are normally not needed, but one might guess that they could be useful for checking the tangents and secants obtained from the formulæ of chapter 15.

Once Briggs has the tangents and secants, he computes the logarithms. Briggs explains that the logarithms can either be obtained by the radix method described in chapter 14 of the *Arithmetica logarithmica*, or preferably by his propositions 10 and 11:

$$\log \sin_b x - \log \sin_b(90^\circ - x) = \log r - \log \tan_b(90^\circ - x)$$
$$\log r - \log \sin_b x = \log \sec_b(90^\circ - x) - \log r$$

This somewhat abruptly ends Briggs' explanations. The second part of the *Trigonometria britannica* written by Gellibrand contains applications and is not described here.

4 Vlacq's *Trigonometria artificialis* (1633)

Adriaan Vlacq published his *Trigonometria artificialis* [85] the same year as Briggs' *Trigonometria britannica*, and one might wonder whether Vlacq copied some values from Briggs' table, as he did for Briggs' *Arithmetica logarithmica*. This was answered by Glaisher's careful analysis who has shown that Briggs' and Vlacq's tables had in fact been constructed independently [32, p. 444], [62].

5 Decimal system

5.1 Centesimal division of the degree

Briggs perceived the advantage of a centesimal division of the right angles, and he made a step in this direction by dividing the degrees not into minutes, but into hundredths [31, p. 301]. Glaisher considered that if Vlacq had done the same in his *Trigonometria artificialis* (1633) [85], the switch to a centesimal division might have been easier [31, pp. 301–302]. This may well be true, as Vlacq's book was much more widespread than

Briggs', and became the basis of other tables. The fact that the quadrant was still 90° in Briggs' system is actually only a minor point, as the value 90 only plays a marginal role in the computations. But converting degrees, minutes and seconds in fractions of degrees is always cumbersome, and Briggs' change would have alleviated these difficulties.

5.2 Decimal division of the circle

In the chapter 14 of the *Trigonometria britannica*, Briggs actually gives the sines for a quadrant, every $2°\frac{1}{4}$. He also gives the angle assuming the circle is divided in 100 parts. Thus, $2°\frac{1}{4}$ corresponds to 0 hundredths, and 625 thousandths of hundredths.

The division of the quadrant in 25 parts was not followed, except by Mendizábal in 1891 [19].

6 Errors in the tables

An examination of Briggs' tables reveals that the most important computation errors are those of the sines of small angles, and of their logarithms. The last three digits of the first ten sines were given as 313 (+0), 309 (−1), 672 (−2), 085 (−3), 232 (−3), 796 (−4), 461 (−4), 910 (−4), 827 (−4), and 894 (−4), and there are up to four units of error in the last place. These errors seem to decrease when the angle becomes larger. Tangents, secants, and their logarithms seem to be computed very accurately, with usually no more than one or two units of error on the last place. The logarithms of sines also seem to be accurate for larger values of the angles.

The logarithms of sines have large errors for small angles, and the reason may be the difference in the number of significative digits. There are always 15 significative digits in the logarithms of sines, whereas the sines start with only 12 significative digits. A difference of one unit of the last place in the first sine causes a difference of more than 200 units of the last place in the corresponding logarithm. The actual errors can be guessed from the four last digits of the first ten logarithms of sines: 8610 (+17), 3540 (+17), 6652 (+8), 4065 (+17), 0453 (+5), 9835 (+8), 6535 (+10), 6969 (+17), 3372 (+3), 0141 (+5). The errors still appear smaller than one might have anticipated, first, because Briggs certainly used more accurate values for the sines (19 places according to the above description), and second because there is actually a correspondence error. For instance, Briggs should not have found $10+\log\sin 0°.10 = 7.24187\,71471\,0141$ given that his value of the sine is $0.0017453283\,65894$ and that $10+\log 0.0017453283\,65894 = 7.24187714710029$ and $10+\log 0.0017453283\,65895 = 7.24187714710054$. Since a similar observation can be made for all these first values, it is clear that the sines used by Briggs were not those printed in the tables, at least not for the beginning, because the logarithms would be even less accurate than they are.

One might be tempted to make the same observations for the first tangents, as there is even a larger discrepancy in the number of significative digits, but Briggs did not use the values of the tangents to compute their logarithms. Instead, as shown previously, he used previously computed values of the logarithms of the sines, and since the logarithms of the tangents are only given to 10 decimal places, even errors of several 100 units of the last place in the logarithms of sines have barely noticeable consequences in the logarithms of tangents.

It is of course interesting to correlate this with Rheticus' errors in the *Opus palatinum* (1596), since his errors were also due to an insufficient accuracy in the fundamental values.

For more information on Briggs' errors, see in particular Henri Andoyer [3] and Fletcher *et al.* [27, p. 794] who list eleven errors, plus an entire page of errors where the first digit is wrong, apart from those affecting the last digit or two.

7 Structure of the tables and recomputation

The original *Trigonometria britannica* contains an introduction of 110 pages, followed by a section of tables with the frontispice *Canones sinvvm tangentivm secantivm et logarithmorvm pro sinvbvs & tangentibvs, ad Gradus & Graduum Centesimas, & ad Minuta & Secunda Centesimis respondentia.*

The tables were recomputed using the GNU `mpfr` multiple-precision floating-point library developed at INRIA [28], and give the exact values. The comparison of our table and Briggs' will therefore immediately show where Briggs' table contains errors, and this is of course one of the purposes of this reconstruction. Apart from the change in accuracy, we have tried to be as faithful as possible to the original tables. We have however added some values in a few cases where Briggs had left blanks or put obviously incorrect values. The original tables had for instance $\log \sin 0 = \log \tan 0 = 0$ and we have replaced these two values by *Infinita* which was used by Briggs in other places. There are also some other minor changes related to commas.

8 Acknowledgements

It is a pleasure to thank Ian Bruce for his fruitful interaction.

References

The following list covers the most important references[15] related to Briggs' tables. Not all items of this list are mentioned in the text, and the sources which have not been seen are marked so. We have added notes about the contents of the articles in certain cases.

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[15] **Note on the titles of the works:** Original titles come with many idiosyncrasies and features (line splitting, size, fonts, etc.) which can often not be reproduced in a list of references. It has therefore seemed pointless to capitalize works according to conventions which not only have no relation with the original work, but also do not restore the title entirely. In the following list of references, most title words (except in German) will therefore be left uncapitalized. The names of the authors have also been homogenized and initials expanded, as much as possible.

The reader should keep in mind that this list is not meant as a facsimile of the original works. The original style information could no doubt have been added as a note, but we have not done it here.

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CANONES

S I N V V M
T A N G E N T I V M
S E C A N T I V M

ET

LOGARITHMORVM

pro SINVBVS & TANGENTIBVS,

ad Gradus & Graduum Centesimas,

& ad Minuta & Secunda Centesimis respondentia.

0. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
0	0	0	1 00000,00000	*Infinita*	*Infinita*	0: 0
	17,45329,24313	17,45329	152	*Infinita*	*Infinita*	
1	17,45329,24313	17,45329	1 00000,00152	6,24187,73653,8593	6,24187,73720	0:36
	17,45329,18997	17,45330	457	30102,99890,4930	30103,00089	
2	34,90658,43310	34,90659	1 00000,00609	6,54290,73544,3523	6,54290,73809	1:12
	17,45329,08364	17,45329	762	17609,12480,3121	17609,12811	
3	52,35987,51674	52,35988	1 00000,01371	6,71899,86024,6644	6,71899,86620	1:48
	17,45328,92414	17,45330	1066	12493,87211,7404	12493,87675	
4	69,81316,44088	69,81318	1 00000,02437	6,84393,73236,4048	6,84393,74295	2:24
	17,45328,71147	17,45330	1371	9690,99931,6400	9691,00527	
5	87,26645,15235	87,26648	1 00000,03808	6,94084,73168,0448	6,94084,74822	3: 0
	17,45328,44565	17,45331	1675	7918,12217,9379	7918,12945	
6	104,71973,59800	104,71979	1 00000,05483	7,02002,85385,9827	7,02002,87767	3:36
	17,45328,12665	17,45332	1980	6694,67609,6698	6694,68470	
7	122,17301,72465	122,17311	1 00000,07463	7,08697,52995,6525	7,08697,56237	4:12
	17,45327,75449	17,45332	2285	5799,19139,0427	5799,20131	
8	139,62629,47914	139,62643	1 00000,09748	7,14496,72134,6952	7,14496,76368	4:48
	17,45327,32917	17,45333	2589	5115,24849,6417	5115,25974	
9	157,07956,80831	157,07976	1 00000,12337	7,19611,96984,3369	7,19612,02342	5:24
	17,45326,85067	17,45334	2894	4575,74486,6767	4575,75744	
10	174,53283,65898	174,53310	1 00000,15231	7,24187,71471,0136	7,24187,78086	6: 0
	17,45326,31902	17,45335	3198	4139,26388,5544	4139,27777	
11	191,98609,97800	191,98645	1 00000,18429	7,28326,97859,5680	7,28327,05863	6:36
	17,45325,73419	17,45337	3503	3778,85101,7681	3778,86623	
12	209,43935,71219	209,43982	1 00000,21932	7,32105,82961,3361	7,32105,92486	7:12
	17,45325,09621	17,45337	3808	3476,20511,3684	3476,22166	
13	226,89260,80840	226,89319	1 00000,25740	7,35582,03472,7045	7,35582,14652	7:48
	17,45324,40505	17,45339	4113	3218,46238,3923	3218,48024	
14	244,34585,21345	244,34658	1 00000,29853	7,38800,49711,0968	7,38800,62676	8:24
	17,45323,66073	17,45341	4417	2996,31594,3547	2996,33513	
15	261,79908,87418	261,79999	1 00000,34270	7,41796,81305,4515	7,41796,96189	9: 0
	17,45322,86324	17,45342	4721	2802,86552,4849	2802,88603	
16	279,25231,73742	279,25341	1 00000,38991	7,44599,67857,9364	7,44599,84792	9:36
	17,45322,01260	17,45343	5026	2632,88659,6079	2632,90842	
17	296,70553,75002	296,70684	1 00000,44017	7,47232,56517,5443	7,47232,75634	10:12
	17,45321,10878	17,45346	5331	2482,35065,5368	2482,37381	
18	314,15874,85880	314,16030	1 00000,49348	7,49714,91583,0811	7,49715,13015	10:48
	17,45320,15179	17,45347	5636	2348,10142,6837	2348,12590	
19	331,61195,01059	331,61377	1 00000,54984	7,52063,01725,7648	7,52063,25605	11:24
	17,45319,14165	17,45350	5940	2227,63087,2021	2227,65667	
20	349,06514,15224	349,06727	1 00000,60924	7,54290,64812,9669	7,54290,91272	12: 0
	17,45318,07833	17,45351	6245	2118,92086,6919	2118,94798	
21	366,51832,23057	366,52078	1 00000,67169	7,56409,56899,6588	7,56409,86070	12:36
	17,45316,96186	17,45354	6549	2020,32912,7774	2020,35758	
22	383,97149,19243	383,97432	1 00000,73718	7,58429,89812,4362	7,58430,21828	13:12
	17,45315,79221	17,45356	6854	1930,50559,7503	1930,53536	
23	401,42464,98464	401,42788	1 00000,80572	7,60360,40372,1865	7,60360,75364	13:48
	17,45314,56940	17,45359	7158	1848,33020,6386	1848,36130	
24	418,87779,55404	418,88147	1 00000,87730	7,62208,73392,8251	7,62209,11494	14:24
	17,45313,29343	17,45361	7464	1772,86589,2048	1772,89830	
25	436,33092,84747	436,33508	1 00000,95194	7,63981,59982,0299	7,63982,01324	15: 0
	17,45311,96428	17,45364	7768	1703,32268,4901	1703,35642	
26	453,78404,81175	453,78872	1 00001,02962	7,65684,92250,5200	7,65685,36966	15:36
	17,45310,58198	17,45367	8072	1639,02993,2860	1639,06499	
27	471,23715,39373	471,24239	1 00001,11034	7,67323,95243,8060	7,67324,43465	16:12
	17,45309,14652	17,45369	8377	1579,41459,1385	1579,45097	
28	488,69024,54025	488,69608	1 00001,19411	7,68903,36702,9445	7,68903,88562	16:48
	17,45307,65787	17,45373	8682	1523,98408,7755	1524,02179	
29	506,14332,19812	506,14981	1 00001,28093	7,70427,35111,7200	7,70427,90741	17:24
	17,45306,11608	17,45375	8986	1472,31267,3171	1472,35170	
30	523,59638,31420	523,60356	1 00001,37079	7,71899,66379,0371	7,71900,25911	18: 0
	17,45304,52110	17,45379	9291	1424,03046,1580	1424,07082	
31	541,04942,83530	541,05735	1 00001,46370	7,73323,69425,1951	7,73324,32993	18:36
	17,45302,87298	17,45382	9596	1378,81455,7700	1378,85623	
32	558,50245,70828	558,51117	1 00001,55966	7,74702,50880,9651	7,74703,18616	19:12
	17,45301,17169	17,45385	9900	1336,38182,3954	1336,42482	
33	575,95546,87997	575,96502	1 00001,65866	7,76038,89063,3605	7,76039,61098	19:48
	17,45299,41722	17,45389	10205	1296,48294,3610	1296,52726	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
100	1,00000,00000,00000 152,30871	*Infinita* *Infinita*	*Infinita* *Infinita*	10,00000,00000,0000 66,1468	*Infinita* *Infinita*	60: 0
99	99999,99847,69129 456,92612	5729 57789,31306 2864 78903,38318	5729 57798,03971 2864 78894,65653	9,99999,99933,8532 198,4405	13,75812,26280 30103,00089	59:24
98	99999,99390,76517 761,54353	2864 78885,92988 954 92971,67290	2864 78903,38318 954 92962,94626	9,99999,99735,4127 330,7342	13,45709,26191 17609,12811	58:48
97	99999,98629,22164 1066,16090	1909 85914,25698 477 46488,74533	1909 85940,43692 477 46480,01869	9,99999,99404,6785 463,0279	13,28100,13380 12493,87675	58:12
96	99999,97563,06074 1370,77825	1432 39425,51165 286 47895,57431	1432 39460,41823 286 47886,84765	9,99999,98941,6506 595,3216	13,15606,25705 9691,00527	57:36
95	99999,96192,28249 1675,39555	1145 91529,93734 190 98598,98879	1145 91573,57058 190 98590,26215	9,99999,98346,3290 727,6154	13,05915,25178 7918,12945	57: 0
94	99999,94516,88694 1980,01280	954 92930,94855 136 41858,08279	954 92983,30843 136 41849,35613	9,99999,97618,7136 859,9092	12,97997,12233 6694,68470	56:24
93	99999,92536,87414 2284,62999	818 51072,86576 102 31395,01653	818 51133,95230 102 31386,28989	9,99999,96758,8044 992,2030	12,91302,43763 5799,20131	55:48
92	99999,90252,24415 2589,24711	716 19677,84923 79 57752,97236	716 19747,66241 79 57744,24571	9,99999,95766,6014 1124,4970	12,85503,23632 5115,25974	55:12
91	99999,87662,99704 2893,86416	636 61924,87687 63 66203,54144	636 62003,41670 63 66194,81479	9,99999,94642,1044 1256,7910	12,80387,97658 4575,75744	54:36
90	99999,84769,13288 3198,48112	572 95721,33543 52 08713,04623	572 95808,60191 52 08704,31957	9,99999,93385,3134 1389,0850	12,75812,21914 4139,27777	54: 0
89	99999,81570,65176 3503,09797	520 87008,28920 43 40595,17482	520 87104,28234 43 40586,44817	9,99999,91996,2284 1521,3792	12,71672,94137 3778,86623	53:24
88	99999,78067,55379 3807,71472	477 46413,11438 36 72812,19682	477 46517,83417 36 72803,47016	9,99999,90474,8492 1653,6734	12,67894,07514 3476,22166	52:48
87	99999,74259,83907 4112,33136	440 73600,91756 31 48125,57123	440 73714,36401 31 48116,84457	9,99999,88821,1758 1785,9678	12,64417,85348 3218,48024	52:12
86	99999,70147,50771 4416,94786	409 25475,34633 27 28376,27078	409 25597,51944 27 28367,54412	9,99999,87035,2080 1918,2623	12,61199,37324 2996,33513	51:36
85	99999,65730,55985 4721,56424	381 97099,07555 23 87329,96415	381 97229,97532 23 87321,23749	9,99999,85116,9457 2050,5568	12,58203,03811 2802,88603	51: 0
84	99999,61008,99561 5026,18048	358 09769,11140 21 06468,29987	358 09908,73783 21 06459,57321	9,99999,83066,3889 2182,8515	12,55400,15208 2632,90842	50:24
83	99999,55982,81513 5330,79655	337 03300,81153 18 72416,91297	337 03449,16462 18 72408,18630	9,99999,80883,5374 2315,1463	12,52767,24366 2482,37381	49:48
82	99999,50652,01858 5635,41247	318 30883,89856 16 75321,00822	318 31040,97832 16 75312,28155	9,99999,78568,3911 2447,4413	12,50284,86985 2348,12590	49:12
81	99999,45016,60611 5940,02821	301 55562,89034 15 07789,48918	301 55728,69677 15 07780,76250	9,99999,76120,9498 2579,7364	12,47936,74395 2227,65667	48:36
80	99999,39076,57790 6244,64377	286 47773,40116 13 64191,04428	286 47947,93427 13 64182,31761	9,99999,73541,2134 2712,0317	12,45709,08728 2118,94798	48: 0
79	99999,32831,93413 6549,25915	272 83582,35688 12 40174,20551	272 83765,61666 12 40165,47883	9,99999,70829,1817 2844,3272	12,43590,13930 2020,35758	47:24
78	99999,26282,67498 6853,87432	260 43408,15137 11 32333,47614	260 43600,13783 11 32324,74947	9,99999,67984,8545 2976,6227	12,41569,78172 1930,53536	46:48
77	99999,19428,80066 7158,48928	249 11074,67523 10 37972,83795	249 11275,38836 10 37964,11126	9,99999,65008,2318 3108,9186	12,39639,24636 1848,36130	46:12
76	99999,12270,31138 7463,10404	238 73101,83728 9 54935,47634	238 73311,27710 9 54926,74965	9,99999,61899,3132 3241,2145	12,37790,88506 1772,89830	45:36
75	99999,04807,20734 7767,71855	229 18166,36094 8 81479,34875	229 18384,52745 8 81470,62207	9,99999,58658,0987 3373,5108	12,36017,98676 1703,35642	45: 0
74	99998,97039,48879 8072,33283	220 36687,01219 8 16185,01314	220 36913,90538 8 16176,28644	9,99999,55284,5879 3505,8071	12,34314,63034 1639,06499	44:24
73	99998,88967,15596 8376,94687	212 20501,99905 7 57886,49918	212 20737,61894 7 57877,77249	9,99999,51778,7808 3638,1037	12,32675,56535 1579,45097	43:48
72	99998,80590,20909 8681,56065	204 62615,49987 7 05618,86598	204 62859,84645 7 05610,13928	9,99999,48140,6771 3770,4005	12,31096,11438 1524,02179	43:12
71	99998,71908,64844 8986,17417	197 56996,63389 6 58577,99611	197 57249,70717 6 58569,26940	9,99999,44370,2766 3902,6976	12,29572,09259 1472,35170	42:36
70	99998,62922,47427 9290,78741	190 98418,63778 6 16089,46847	190 98680,43777 6 16080,74177	9,99999,40467,5790 4034,9949	12,28099,74089 1424,07082	42: 0
69	99998,53631,68686 9595,40038	184 82329,16931 5 77584,24031	184 82599,69600 5 77575,51360	9,99999,36432,5841 4167,2925	12,26675,67007 1378,85623	41:24
68	99998,44036,28648 9900,01304	179 04744,92900 5 42579,48744	179 05024,18240 5 42570,76071	9,99999,32265,2916 4299,5902	12,25296,81384 1336,42482	40:48
67	99998,34136,27344 10204,62541	173 62165,44156 5 10663,38922	173 62453,42169 5 10654,66250	9,99999,27965,7014 4431,8883	12,23960,38902 1296,52726	40:12

GRAD. 89.

o. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	575,95546,87997	575,96502	1 00001,65866	7,76038,89063,3605	7,76039,61098	19:48
	17,45299,41722	17,45389	10205	1296,48294,3610	1296,52726	
34	593,40846,29719	593,41891	1 00001,76071	7,77335,37357,7215	7,77336,13824	20:24
	17,45297,60959	17,45393	10510	1258,89751,6994	1258,94316	
35	610,86143,90678	610,87284	1 00001,86581	7,78594,27109,4209	7,78595,08140	21: 0
	17,45295,74881	17,45396	10814	1223,42998,6911	1223,47695	
36	628,31439,65559	628,32680	1 00001,97395	7,79817,70108,1120	7,79818,55835	21:36
	17,45293,83485	17,45400	11119	1189,90623,4198	1189,95452	
37	645,76733,49044	645,78080	1 00002,08514	7,81007,60731,5318	7,81008,51287	22:12
	17,45291,86773	17,45404	11424	1158,17071,8226	1158,22033	
38	663,22025,35817	663,23484	1 00002,19938	7,82165,77803,3544	7,82166,73320	22:48
	17,45289,84745	17,45408	11728	1128,08406,3231	1128,13500	
39	680,67315,20562	680,68892	1 00002,31666	7,83293,86209,6775	7,83294,86820	23:24
	17,45287,77400	17,45412	12033	1099,52101,1426	1099,57327	
40	698,12602,97962	698,14304	1 00002,43699	7,84393,38310,8201	7,84394,44147	24: 0
	17,45285,64738	17,45417	12337	1072,36867,9473	1072,42226	
41	715,57888,62700	715,59721	1 00002,56036	7,85465,75178,7674	7,85466,86373	24:36
	17,45283,46761	17,45421	12643	1046,52506,7129	1046,57997	
42	733,03172,09461	733,05142	1 00002,68679	7,86512,27685,4803	7,86513,44370	25:12
	17,45281,23466	17,45425	12946	1021,89777,6497	1021,95400	
43	750,48453,32927	750,50567	1 00002,81625	7,87534,17463,1300	7,87535,39770	25:48
	17,45278,94856	17,45430	13252	998,40290,8005	998,46045	
44	767,93732,27783	767,95997	1 00002,94877	7,88532,57753,9305	7,88533,85815	26:24
	17,45276,60928	17,45434	13556	975,96410,5276	976,02298	
45	785,39008,88711	785,41431	1 00003,08433	7,89508,54164,4581	7,89509,88113	27: 0
	17,45274,21685	17,45440	13861	954,51172,6000	954,57192	
46	802,84283,10396	802,86871	1 00003,22294	7,90463,05337,0581	7,90464,45305	27:36
	17,45271,77126	17,45444	14165	933,98211,9806	934,04364	
47	820,29554,87522	820,32315	1 00003,36459	7,91397,03549,0387	7,91398,49669	28:12
	17,45269,27249	17,45449	14471	914,31699,7394	914,37984	
48	837,74824,14771	837,77764	1 00003,50930	7,92311,35248,7781	7,92312,87653	28:48
	17,45266,72056	17,45454	14774	895,46287,7715	895,52704	
49	855,20090,86827	855,23218	1 00003,65704	7,93206,81536,5496	7,93208,40357	29:24
	17,45264,11547	17,45460	15080	877,37060,2187	877,43609	
50	872,65354,98374	872,68678	1 00003,80784	7,94084,18596,7683	7,94085,83966	30: 0
	17,45261,45722	17,45465	15384	859,99490,6643	860,06172	
51	890,10616,44096	890,14143	1 00003,96168	7,94944,18087,4326	7,94945,90138	30:36
	17,45258,74579	17,45470	15689	843,29404,3152	843,36217	
52	907,55875,18675	907,59613	1 00004,11857	7,95787,47491,7478	7,95789,26355	31:12
	17,45255,98122	17,45476	15993	827,22944,5078	827,29890	
53	925,01131,16797	925,05089	1 00004,27850	7,96614,70436,2556	7,96616,56245	31:48
	17,45253,16347	17,45481	16299	811,76542,9710	811,83621	
54	942,46384,33144	942,50570	1 00004,44149	7,97426,46979,2266	7,97428,39866	32:24
	17,45250,29256	17,45487	16603	796,86893,3634	796,94104	
55	959,91634,62400	959,96057	1 00004,60752	7,98223,33872,5900	7,98225,33970	33: 0
	17,45247,36849	17,45493	16907	782,50927,6715	782,58270	
56	977,36881,99249	977,41550	1 00004,77659	7,99005,84800,2615	7,99007,92240	33:36
	17,45244,39125	17,45499	17212	768,65795,1160	768,73270	
57	994,82126,38374	994,87049	1 00004,94871	7,99774,50595,3775	7,99776,65510	34:12
	17,45241,36086	17,45506	17517	755,28843,2589	755,36450	
58	1012,27367,74460	1012,32555	1 00005,12388	8,00529,79438,6364	8,00532,01960	34:48
	17,45238,27729	17,45511	17822	742,37601,0477	742,45341	
59	1029,72606,02189	1029,78066	1 00005,30210	8,01272,17039,6841	8,01274,47301	35:24
	17,45235,14057	17,45517	18126	729,89763,5718	729,97635	
60	1047,17841,16246	1047,23583	1 00005,48336	8,02002,06803,2559	8,02004,44936	36: 0
	17,45231,95068	17,45524	18431	717,83178,3291	717,91183	
61	1064,63073,11314	1064,69107	1 00005,66767	8,02719,89981,5850	8,02722,36119	36:36
	17,45228,70763	17,45530	18736	706,15832,8339	706,23969	
62	1082,08301,82077	1082,14637	1 00005,85503	8,03426,05814,4189	8,03428,60088	37:12
	17,45225,41141	17,45537	19041	694,85843,4134	694,94112	
63	1099,53527,23218	1099,60174	1 00006,04544	8,04120,91657,8323	8,04123,54200	37:48
	17,45222,06204	17,45544	19345	683,91445,0643	683,99846	
64	1116,98749,29422	1117,05718	1 00006,23889	8,04804,83102,8966	8,04807,54046	38:24
	17,45218,65950	17,45551	19650	673,30982,2518	673,39516	
65	1134,43967,95372	1134,51269	1 00006,43539	8,05478,14085,1484	8,05480,93562	39: 0
	17,45215,20380	17,45557	19954	663,02900,5533	663,11566	
66	1151,89183,15752	1151,96826	1 00006,63493	8,06141,16985,7017	8,06144,05128	39:36
	17,45211,69494	17,45564	20260	653,05739,0537	653,14537	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	99998,34136,27344	173 62165,44156	173 62453,42169	9,99999,27965,7014	12,23960,38902	40:12
	10204,62541	5 10663,38922	5 10654,66250	4431,8883	1296,52726	
66	99998,23931,64803	168 51502,05234	168 51798,75919	9,99999,23533,8131	12,22663,86176	39:36
	10509,23746	4 81482,95657	4 81474,22985	4564,1866	1258,94316	
65	99998,13422,41057	163 70019,09577	163 70324,52934	9,99999,18969,6265	12,21404,91860	39: 0
	10813,84920	4 54734,22664	4 54725,49991	4696,4852	1223,47695	
64	99998,02608,56137	159 15284,86913	159 15599,02943	9,99999,14273,1413	12,20181,44165	38:24
	11118,46060	4 30154,31266	4 30145,58592	4828,7841	1189,95452	
63	99997,91490,10077	154 85130,55647	154 85453,44351	9,99999,09444,3572	12,18991,48713	37:48
	11423,07168	4 07514,91819	4 07506,19145	4961,0832	1158,22033	
62	99997,80067,02909	150 77615,63828	150 77947,25206	9,99999,04483,2740	12,17833,26680	37:12
	11727,68239	3 86617,01561	3 86608,28887	5093,3828	1128,13500	
61	99997,68339,34670	146 90998,62267	146 91338,96319	9,99998,99389,8912	12,16705,13180	36:36
	12032,29275	3 67286,45572	3 67277,72897	5225,6825	1099,57327	
60	99997,56307,05395	143 23712,16695	143 24061,23422	9,99998,94164,2087	12,15605,55853	36: 0
	12336,90275	3 49370,32705	3 49361,60030	5357,9827	1072,42226	
59	99997,43970,15120	139 74341,83990	139 74699,63392	9,99998,88806,2260	12,14533,13627	35:24
	12641,51237	3 32733,92185	3 32725,19509	5490,2831	1046,57997	
58	99997,31328,63883	136 41607,91805	136 41974,43883	9,99998,83315,9429	12,13486,55630	34:48
	12946,12161	3 17258,19609	3 17249,46932	5622,5839	1021,95400	
57	99997,18382,51722	133 24349,72196	133 24724,96951	9,99998,77693,3590	12,12464,60230	34:12
	13250,73044	3 02837,63343	3 02828,90666	5754,8850	998,46045	
56	99997,05131,78678	130 21512,08853	130 21896,06285	9,99998,71938,4740	12,11466,14185	33:36
	13555,33888	2 89378,44164	2 89369,71486	5887,1864	976,02298	
55	99996,91576,44790	127 32133,64689	127 32526,34799	9,99998,66051,2876	12,10490,11887	33: 0
	13859,94691	2 76797,02322	2 76788,29643	6019,4883	954,57192	
54	99996,77716,50099	124 55336,62367	124 55738,05156	9,99998,60031,7993	12,09535,54695	32:24
	14164,55451	2 65018,67405	2 65009,94727	6151,7905	934,04364	
53	99996,63551,94648	121 90317,94962	121 90728,10429	9,99998,53880,0088	12,08601,50331	31:48
	14469,16167	2 53976,47171	2 53967,74491	6284,0930	914,37984	
52	99996,49082,78481	119 36341,47791	119 36760,35938	9,99998,47595,9158	12,07687,12347	31:12
	14773,76841	2 43610,32258	2 43601,59578	6416,3960	895,52704	
51	99996,34309,01640	116 92731,15533	116 93158,76360	9,99998,41179,5198	12,06791,59643	30:36
	15078,37469	2 33866,14240	2 33857,41559	6548,6994	877,43609	
50	99996,19230,64171	114 58865,01293	114 59301,34801	9,99998,34630,8204	12,05914,16034	30: 0
	15382,98050	2 24695,14928	2 24686,42246	6681,0031	860,06172	
49	99996,03847,66121	112 34169,86365	112 34614,92555	9,99998,27949,8173	12,05054,09862	29:24
	15687,58586	2 16053,25192	2 16044,52510	6813,3072	843,36217	
48	99995,88160,07535	110 18116,61173	110 18570,40045	9,99998,21136,5101	12,04210,73645	28:48
	15992,19073	2 07900,51856	2 07891,79173	6945,6118	827,29890	
47	99995,72167,88462	108 10216,09317	108 10678,60872	9,99998,14190,8983	12,03383,43755	28:12
	16296,79512	2 00200,71484	2 00191,98800	7077,9168	811,83621	
46	99995,55871,08950	106 10015,37833	106 10486,62072	9,99998,07112,9815	12,02571,60134	27:36
	16601,39901	1 92920,90040	1 92912,17356	7210,2221	796,94104	
45	99995,39269,69049	104 17094,47793	104 17574,44716	9,99997,99902,7594	12,01774,66030	27: 0
	16906,00239	1 86031,07603	1 86022,34918	7342,5281	782,58270	
44	99995,22363,68810	102 31063,40190	102 31552,09798	9,99997,92560,2313	12,00992,07760	26:24
	17210,60527	1 79503,87400	1 79495,14714	7474,8343	768,73270	
43	99995,05153,08283	100 51559,52790	100 52056,95084	9,99997,85085,3970	12,00223,34490	25:48
	17515,20760	1 73314,28586	1 73305,55899	7607,1412	755,36450	
42	99994,87637,87523	98 78245,24204	98 78751,39185	9,99997,77478,2558	11,99467,98040	25:12
	17819,80942	1 67439,42254	1 67430,69567	7739,4483	742,45341	
41	99994,69818,06581	97 10805,81950	97 11320,69618	9,99997,69738,8075	11,98725,52699	24:36
	18124,41069	1 61858,30239	1 61849,57551	7871,7560	729,97635	
40	99994,51693,65512	95 48947,51711	95 49471,12067	9,99997,61867,0515	11,97995,55064	24: 0
	18429,01140	1 56551,66356	1 56542,93667	8004,0642	717,91183	
39	99994,33264,64372	93 92395,85355	93 92928,18400	9,99997,53862,9873	11,97277,63881	23:24
	18733,61156	1 51501,79757	1 51493,07067	8136,3729	706,23969	
38	99994,14531,03216	92 40894,05598	92 41435,11333	9,99997,45726,6144	11,96571,39912	22:48
	19038,21115	1 46692,40140	1 46683,67449	8268,6820	694,94112	
37	99993,95492,82101	90 94201,65458	90 94751,43884	9,99997,37457,9324	11,95876,45800	22:12
	19342,81015	1 42108,44567	1 42099,71876	8400,9917	683,99846	
36	99993,76150,01086	89 52093,20891	89 52651,72008	9,99997,29056,9407	11,95192,45954	21:36
	19647,40856	1 37736,05712	1 37727,33020	8533,3019	673,39516	
35	99993,56502,60230	88 14357,15179	88 14924,38988	9,99997,20523,6388	11,94519,06438	21: 0
	19952,00638	1 33562,41352	1 33553,68659	8665,6125	663,11566	
34	99993,36550,59592	86 80794,73827	86 81370,70329	9,99997,11858,0263	11,93855,94872	20:24
	20256,60359	1 29575,64947	1 29566,92253	8797,9238	653,14537	

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Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	1169,34394,85246	1169,42390	1 00006,83753	8,06794,22724,7554	8,06797,19665	40:12
	17,45208,13291	17,45572	20564	643,38123,4191	643,47053	
68	1186,79602,98537	1186,87962	1 00007,04317	8,07437,60848,1745	8,07440,66718	40:48
	17,45204,51773	17,45579	20869	633,98759,5761	634,07822	
69	1204,24807,50310	1204,33541	1 00007,25186	8,08071,59607,7506	8,08074,74540	41:24
	17,45200,84937	17,45586	21173	624,86427,9367	624,95623	
70	1221,70008,35247	1221,79127	1 00007,46359	8,08696,46035,6873	8,08699,70163	42: 0
	17,45197,12787	17,45593	21478	615,99978,1157	616,09306	
71	1239,15205,48034	1239,24720	1 00007,67837	8,09312,46013,8030	8,09315,79469	42:36
	17,45193,35319	17,45601	21783	607,38324,0902	607,47783	
72	1256,60398,83353	1256,70321	1 00007,89620	8,09919,84337,8932	8,09923,27252	43:12
	17,45189,52535	17,45609	22088	599,00439,7608	599,10032	
73	1274,05588,35888	1274,15930	1 00008,11708	8,10518,84777,6540	8,10522,37284	43:48
	17,45185,64436	17,45616	22392	590,85354,8749	590,95079	
74	1291,50774,00324	1291,61546	1 00008,34100	8,11109,70132,5289	8,11113,32363	44:24
	17,45181,71020	17,45625	22698	582,92151,2775	583,02007	
75	1308,95955,71344	1309,07171	1 00008,56798	8,11692,62283,8064	8,11696,34370	45: 0
	17,45177,72289	17,45632	23002	575,19959,4618	575,29949	
76	1326,41133,43633	1326,52803	1 00008,79800	8,12267,82243,2682	8,12271,64319	45:36
	17,45173,68240	17,45641	23306	567,67955,3884	567,78076	
77	1343,86307,11873	1343,98444	1 00009,03106	8,12835,50198,6566	8,12839,42395	46:12
	17,45169,58876	17,45648	23612	560,35357,5520	560,45611	
78	1361,31476,70749	1361,44092	1 00009,26718	8,13395,85556,2086	8,13399,88006	46:48
	17,45165,44196	17,45657	23916	553,21424,2720	553,31810	
79	1378,76642,14945	1378,89749	1 00009,50634	8,13949,06980,4806	8,13953,19816	47:24
	17,45161,24200	17,45665	24221	546,25451,1879	546,35969	
80	1396,21803,39145	1396,35414	1 00009,74855	8,14495,32431,6685	8,14499,55785	48: 0
	17,45156,98888	17,45674	24526	539,46768,9404	539,57419	
81	1413,66960,38033	1413,81088	1 00009,99381	8,15034,79200,6089	8,15039,13204	48:36
	17,45152,68259	17,45683	24830	532,84741,0243	532,95524	
82	1431,12113,06292	1431,26771	1 00010,24211	8,15567,63941,6332	8,15572,08728	49:12
	17,45148,32314	17,45691	25135	526,38761,7975	526,49677	
83	1448,57261,38606	1448,72462	1 00010,49346	8,16094,02703,4307	8,16098,58405	49:48
	17,45143,91055	17,45700	25441	520,08254,6323	520,19302	
84	1466,02405,29661	1466,18162	1 00010,74787	8,16614,10958,0630	8,16618,77707	50:24
	17,45139,44477	17,45709	25744	513,92670,1985	514,03850	
85	1483,47544,74138	1483,63871	1 00011,00531	8,17128,03628,2615	8,17132,81557	51: 0
	17,45134,92586	17,45718	26050	507,91484,8673	508,02796	
86	1500,92679,66724	1501,09589	1 00011,26581	8,17635,95113,1288	8,17640,84353	51:36
	17,45130,35377	17,45727	26354	502,04199,2253	502,15644	
87	1518,37810,02101	1518,55316	1 00011,52935	8,18137,99312,3541	8,18142,99997	52:12
	17,45125,72852	17,45736	26660	496,30336,6902	496,41913	
88	1535,82935,74953	1536,01052	1 00011,79595	8,18634,29649,0443	8,18639,41910	52:48
	17,45121,05012	17,45746	26964	490,69442,2223	490,81151	
89	1553,28056,79965	1553,46798	1 00012,06559	8,19124,99091,2666	8,19130,23061	53:24
	17,45116,31856	17,45755	27268	485,21081,1189	485,32923	
90	1570,73173,11821	1570,92553	1 00012,33827	8,19610,20172,3855	8,19615,55984	54: 0
	17,45111,53383	17,45765	27574	479,84837,8925	479,96811	
91	1588,18284,65204	1588,38318	1 00012,61401	8,20090,05010,2780	8,20095,52795	54:36
	17,45106,69595	17,45774	27878	474,60315,2192	474,72421	
92	1605,63391,34799	1605,84092	1 00012,89279	8,20564,65325,4972	8,20570,25216	55:12
	17,45101,80492	17,45785	28184	469,47132,9583	469,59372	
93	1623,08493,15291	1623,29877	1 00013,17463	8,21034,12458,4555	8,21039,84588	55:48
	17,45096,86071	17,45794	28488	464,44927,2318	464,57297	
94	1640,53590,01362	1640,75671	1 00013,45951	8,21498,57385,6873	8,21504,41885	56:24
	17,45091,86336	17,45804	28793	459,53349,5655	459,65853	
95	1657,98681,87698	1658,21475	1 00013,74744	8,21958,10735,2528	8,21964,07738	57: 0
	17,45086,81283	17,45814	29097	454,72066,0809	454,84701	
96	1675,43768,68981	1675,67289	1 00014,03841	8,22412,82801,3337	8,22418,92439	57:36
	17,45081,70917	17,45825	29403	450,00756,7401	450,13524	
97	1692,88850,39898	1693,13114	1 00014,33244	8,22862,83558,0738	8,22869,05963	58:12
	17,45076,55233	17,45834	29707	445,39114,6354	445,52015	
98	1710,33926,95131	1710,58948	1 00014,62951	8,23308,22672,7092	8,23314,57978	58:48
	17,45071,34234	17,45846	30012	440,86845,3230	440,99877	
99	1727,78998,29365	1728,04794	1 00014,92963	8,23749,09518,0322	8,23755,57855	59:24
	17,45066,07919	17,45855	30317	436,43666,1964	436,56831	
100	1745,24064,37284	1745,50649	1 00015,23280	8,24185,53184,2286	8,24192,14686	60: 0
	17,45060,76288	17,45867	30622	432,09305,8977	432,22603	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	99993,16293,99233	85 51219,08880	85 51803,78076	9,99997,03060,1025	11,93202,80335	19:48
	20561,20018	1 25764,77208	1 25756,04513	8930,2355	643,47053	
32	99992,95732,79215	84 25454,31672	84 26047,73563	9,99996,94129,8670	11,92559,33282	19:12
	20865,79615	1 22119,58501	1 22110,85805	9062,5478	634,07822	
31	99992,74866,99600	83 03334,73171	83 03936,87758	9,99996,85067,3192	11,91925,25460	18:36
	21170,39148	1 18630,62024	1 18621,89328	9194,8607	624,95623	
30	99992,53696,60452	81 84704,11147	81 85314,98430	9,99996,75872,4585	11,91300,29837	18: 0
	21474,98616	1 15289,07652	1 15280,34954	9327,1741	616,09306	
29	99992,32221,61836	80 69415,03495	80 70034,63476	9,99996,66545,2844	11,90684,20531	17:24
	21779,58020	1 12086,76379	1 12078,03680	9459,4881	607,47783	
28	99992,10442,03816	79 57328,27116	79 57956,59796	9,99996,57085,7963	11,90076,72748	16:48
	22084,17356	1 09016,05294	1 09007,32595	9591,8026	599,10032	
27	99991,88357,86460	78 48312,21822	78 48949,27201	9,99996,47493,9937	11,89477,62716	16:12
	22388,76626	1 06069,83038	1 06061,10337	9724,1178	590,95079	
26	99991,65969,09834	77 42242,38784	77 42888,16864	9,99996,37769,8759	11,88886,67637	15:36
	22693,35827	1 03241,45673	1 03232,72971	9856,4335	583,02007	
25	99991,43275,74007	76 39000,93111	76 39655,43893	9,99996,27913,4424	11,88303,65630	15: 0
	22997,94959	1 00524,72939	1 00516,00237	9988,7499	575,29949	
24	99991,20277,79048	75 38476,20172	75 39139,43656	9,99996,17924,6925	11,87728,35681	14:24
	23302,54022	97913,84858	97905,12155	10121,0668	567,78076	
23	99990,96975,25026	74 40562,35314	74 41234,31501	9,99996,07803,6257	11,87160,57605	13:48
	23607,13012	95403,38626	95394,65921	10253,3843	560,45611	
22	99990,73368,12014	73 45158,96688	73 45839,65580	9,99995,97550,2414	11,86600,11994	13:12
	23911,71932	92988,25796	92979,53091	10385,7025	553,31810	
21	99990,49456,40082	72 52170,70892	72 52860,12489	9,99995,87164,5389	11,86046,80184	12:36
	24216,30778	90663,69697	90654,96989	10518,0214	546,35969	
20	99990,25240,09304	71 61507,01195	71 62205,15500	9,99995,76646,5175	11,85500,44215	12: 0
	24520,89550	88425,23082	88416,50375	10650,3408	539,57419	
19	99990,00719,19754	70 73081,78113	70 73788,65125	9,99995,65996,1767	11,84960,86796	11:24
	24825,48249	86268,65978	86259,93270	10782,6610	532,95524	
18	99989,75893,71505	69 86813,12135	69 87528,71855	9,99995,55213,5157	11,84427,91272	10:48
	25130,06871	84190,03710	84181,30999	10914,9817	526,49677	
17	99989,50763,64634	69 02623,08425	69 03347,40856	9,99995,44298,5340	11,83901,41595	10:12
	25434,65417	82185,65093	82176,92383	11047,3031	520,19302	
16	99989,25328,99217	68 20437,43332	68 21170,48473	9,99995,33251,2309	11,83381,22293	9:36
	25739,23885	80252,00781	80243,28069	11179,6252	514,03850	
15	99988,99589,75332	67 40185,42551	67 40927,20404	9,99995,22071,6057	11,82867,18443	9: 0
	26043,82274	78385,81736	78377,09022	11311,9480	508,02796	
14	99988,73545,93058	66 61799,60815	66 62550,11382	9,99995,10759,6577	11,82359,15647	8:24
	26348,40586	76583,97830	76575,25116	11444,2715	502,15644	
13	99988,47197,52472	65 85215,62985	65 85974,86266	9,99994,99315,3862	11,81857,00003	7:48
	26652,98815	74843,56557	74834,83841	11576,5957	496,41913	
12	99988,20544,53657	65 10372,06428	65 11140,02425	9,99994,87738,7905	11,81360,58090	7:12
	26957,56965	73161,81844	73153,09128	11708,9205	490,81151	
11	99987,93586,96692	64 37210,24584	64 37986,93297	9,99994,76029,8700	11,80869,76939	6:36
	27262,15031	71536,12955	71527,40237	11841,2461	485,32923	
10	99987,66324,81661	63 65674,11629	63 66459,53060	9,99994,64188,6239	11,80384,44016	6: 0
	27566,73016	69964,03480	69955,30761	11973,5725	479,96811	
9	99987,38758,08645	62 95710,08149	62 96504,22299	9,99994,52215,0514	11,79904,47205	5:24
	27871,30915	68443,20401	68434,47680	12105,8995	474,72421	
8	99987,10886,77730	62 27266,87748	62 28069,74619	9,99994,40109,1519	11,79429,74784	4:48
	28175,88731	66971,43227	66962,70506	12238,2272	469,59372	
7	99986,82710,88999	61 60295,44521	61 61107,04113	9,99994,27870,9247	11,78960,15412	4:12
	28480,46460	65546,63197	65537,90475	12370,5558	464,57297	
6	99986,54230,42539	60 94748,81324	60 95569,13638	9,99994,15500,3689	11,78495,58115	3:36
	28785,04102	64166,82538	64158,09813	12502,8851	459,65853	
5	99986,25445,38437	60 30581,98786	60 31411,03825	9,99994,02997,4838	11,78035,92262	3: 0
	29089,61657	62830,13773	62821,41048	12635,2151	454,84701	
4	99985,96355,76780	59 67751,85013	59 68589,62777	9,99993,90362,2687	11,77581,07561	2:24
	29394,19123	61534,79094	61526,06367	12767,5459	450,13524	
3	99985,66961,57657	59 06217,05919	59 07063,56410	9,99993,77594,7228	11,77130,94037	1:48
	29698,76499	60279,09762	60270,37035	12899,8776	445,52015	
2	99985,37262,81158	58 45937,96157	58 46793,19375	9,99993,64694,8452	11,76685,42022	1:12
	30003,33786	59061,45562	59052,72832	13032,2099	440,99877	
1	99985,07259,47372	57 86876,50595	57 87740,46543	9,99993,51662,6353	11,76244,42145	0:36
	30307,90981	57880,34287	57871,61557	13164,5430	436,56831	
0	99984,76951,56391	57 28996,16308	57 29868,84986	9,99993,38498,0923	11,75807,85314	0: 0
	30612,48083	56734,31269	56725,58538	13296,8770	432,22603	

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Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
0	1745,24064,37284	1745,50649	1 00015,23280	8,24185,53184,2286	8,24192,14686	0: 0
	17,45060,76288	17,45867	30622	432,09305,8977	432,22603	
1	1762,69125,13572	1762,96516	1 00015,53902	8,24617,62490,1263	8,24624,37289	0:36
	17,45055,39342	17,45877	30927	427,83503,7635	427,96933	
2	1780,14180,52914	1780,42393	1 00015,84829	8,25045,45993,8898	8,25052,34222	1:12
	17,45049,97079	17,45888	31232	423,66009,3025	423,79571	
3	1797,59230,49993	1797,88281	1 00016,16061	8,25469,12003,1923	8,25476,13793	1:48
	17,45044,49502	17,45899	31536	419,56581,7054	419,70275	
4	1815,04274,99495	1815,34180	1 00016,47597	8,25888,68584,8977	8,25895,84068	2:24
	17,45038,96608	17,45910	31842	415,54989,3801	415,68816	
5	1832,49313,96103	1832,80090	1 00016,79439	8,26304,23574,2778	8,26311,52884	3: 0
	17,45033,38398	17,45921	32146	411,61009,5159	411,74968	
6	1849,94347,34501	1850,26011	1 00017,11585	8,26715,84583,7937	8,26723,27852	3:36
	17,45027,74874	17,45932	32451	407,74427,6711	407,88519	
7	1867,39375,09375	1867,71943	1 00017,44036	8,27123,59011,4648	8,27131,16371	4:12
	17,45022,06033	17,45944	32756	403,95037,3832	404,09260	
8	1884,84397,15408	1885,17887	1 00017,76792	8,27527,54048,8480	8,27535,25631	4:48
	17,45016,31877	17,45955	33061	400,22639,8015	400,36996	
9	1902,29413,47285	1902,63842	1 00018,09853	8,27927,76688,6495	8,27935,62627	5:24
	17,45010,52405	17,45967	33365	396,57043,3397	396,71531	
10	1919,74423,99690	1920,09809	1 00018,43218	8,28324,33731,9892	8,28332,34158	6: 0
	17,45004,67617	17,45979	33671	392,98063,3468	393,12683	
11	1937,19428,67307	1937,55788	1 00018,76889	8,28717,31795,3360	8,28725,46841	6:36
	17,44998,77514	17,45990	33976	389,45521,7966	389,60275	
12	1954,64427,44821	1955,01778	1 00019,10865	8,29106,77317,1326	8,29115,07116	7:12
	17,44992,82095	17,46002	34280	385,99246,9924	386,14132	
13	1972,09420,26916	1972,47780	1 00019,45145	8,29492,76564,1250	8,29501,21248	7:48
	17,44986,81362	17,46015	34586	382,59073,2893	382,74090	
14	1989,54407,08278	1989,93795	1 00019,79731	8,29875,35637,4143	8,29883,95338	8:24
	17,44980,75311	17,46026	34890	379,24840,8288	379,39991	
15	2006,99387,83589	2007,39821	1 00020,14621	8,30254,60478,2431	8,30263,35329	9: 0
	17,44974,63946	17,46039	35195	375,96395,2889	376,11677	
16	2024,44362,47535	2024,85860	1 00020,49816	8,30630,56873,5320	8,30639,47006	9:36
	17,44968,47265	17,46051	35500	372,73587,6469	372,89002	
17	2041,89330,94800	2042,31911	1 00020,85316	8,31003,30461,1789	8,31012,36008	10:12
	17,44962,25269	17,46063	35805	369,56273,9525	369,71821	
18	2059,34293,20069	2059,77974	1 00021,21121	8,31372,86735,1314	8,31382,07829	10:48
	17,44955,97958	17,46076	36110	366,44315,1153	366,59994	
19	2076,79249,18027	2077,24050	1 00021,57231	8,31739,31050,2467	8,31748,67823	11:24
	17,44949,65330	17,46089	36415	363,37576,7004	363,53388	
20	2094,24198,83357	2094,70139	1 00021,93646	8,32102,68626,9471	8,32112,21211	12: 0
	17,44943,27388	17,46102	36720	360,35928,7361	360,51872	
21	2111,69142,10745	2112,16241	1 00022,30366	8,32463,04555,6832	8,32472,73083	12:36
	17,44936,84129	17,46114	37025	357,39245,5289	357,55322	
22	2129,14078,94874	2129,62355	1 00022,67391	8,32820,43801,2121	8,32830,28405	13:12
	17,44930,35556	17,46127	37330	354,47405,4906	354,63614	
23	2146,59009,30430	2147,08482	1 00023,04721	8,33174,91206,7027	8,33184,92019	13:48
	17,44923,81668	17,46141	37635	351,60290,9705	351,76632	
24	2164,03933,12098	2164,54623	1 00023,42356	8,33526,51497,6732	8,33536,68651	14:24
	17,44917,22463	17,46153	37940	348,77788,0983	348,94261	
25	2181,48850,34561	2182,00776	1 00023,80296	8,33875,29285,7715	8,33885,62912	15: 0
	17,44910,57944	17,46167	38244	345,99786,6330	346,16392	
26	2198,93760,92505	2199,46943	1 00024,18540	8,34221,29072,4045	8,34231,79304	15:36
	17,44903,88109	17,46180	38550	343,26179,8198	343,42918	
27	2216,38664,80614	2216,93123	1 00024,57090	8,34564,55252,2243	8,34575,22222	16:12
	17,44897,12960	17,46194	38855	340,56864,2528	340,73734	
28	2233,83561,93574	2234,39317	1 00024,95945	8,34905,12116,4771	8,34915,95956	16:48
	17,44890,32494	17,46208	39160	337,91739,7451	338,08743	
29	2251,28452,26068	2251,85525	1 00025,35105	8,35243,03856,2222	8,35254,04699	17:24
	17,44883,46713	17,46221	39464	335,30709,2049	335,47844	
30	2268,73335,72781	2269,31746	1 00025,74569	8,35578,34565,4271	8,35589,52543	18: 0
	17,44876,55618	17,46235	39770	332,73678,5158	332,90946	
31	2286,18212,28399	2286,77981	1 00026,14339	8,35911,08243,9429	8,35922,43489	18:36
	17,44869,59207	17,46249	40075	330,20556,4249	330,37956	
32	2303,63081,87606	2304,24230	1 00026,54414	8,36241,28800,3678	8,36252,81445	19:12
	17,44862,57481	17,46263	40380	327,71254,4339	327,88786	
33	2321,07944,45087	2321,70493	1 00026,94794	8,36569,00054,8017	8,36580,70231	19:48
	17,44855,50440	17,46277	40685	325,25686,6960	325,43351	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
100	99984,76951,56391	57 28996,16308	57 29868,84986	9,99993,38498,0923	11,75807,85314	60: 0
	30612,48083	56734,31269	56725,58538	13296,8770	432,22603	
99	99984,46339,08308	56 72261,85039	56 73143,26448	9,99993,25201,2153	11,75375,62711	59:24
	30917,05092	55621,98928	55613,26194	13429,2119	427,96933	
98	99984,15422,03216	56 16639,86111	56 17530,00254	9,99993,11772,0034	11,74947,65778	58:48
	31221,62007	54542,06363	54533,33628	13561,5474	423,79571	
97	99983,84200,41209	55 62097,79748	55 62996,66626	9,99992,98210,4560	11,74523,86207	58:12
	31526,18827	53493,28968	53484,56233	13693,8838	419,70275	
96	99983,52674,22382	55 08604,50780	55 09512,10393	9,99992,84516,5722	11,74104,15932	57:36
	31830,75551	52474,48071	52465,75334	13826,2211	415,68816	
95	99983,20843,46831	54 56130,02709	54 57046,35059	9,99992,70690,3511	11,73688,47116	57: 0
	32135,32178	51484,50595	51475,77856	13958,5592	411,74968	
94	99982,88708,14653	54 04645,52114	54 05570,57203	9,99992,56731,7919	11,73276,72148	56:24
	32439,88707	50522,28749	50513,56010	14090,8982	407,88519	
93	99982,56268,25946	53 54123,23365	53 55057,01193	9,99992,42640,8937	11,72868,83629	55:48
	32744,45137	49586,79733	49578,06991	14223,2380	404,09260	
92	99982,23523,80809	53 04536,43632	53 05478,94202	9,99992,28417,6557	11,72464,74369	55:12
	33049,01467	48677,05461	48668,32717	14355,5787	400,36996	
91	99981,90474,79342	52 55859,38171	52 56810,61485	9,99992,14062,0770	11,72064,37373	54:36
	33353,57698	47792,12303	47783,39560	14487,9202	396,71531	
90	99981,57121,21644	52 08067,25868	52 09027,21925	9,99991,99574,1568	11,71667,65842	54: 0
	33658,13825	46931,10855	46922,38108	14620,2626	393,12683	
89	99981,23463,07819	51 61136,15013	51 62104,83817	9,99991,84953,8942	11,71274,53159	53:24
	33962,69851	46093,15693	46084,42947	14752,6060	389,60275	
88	99980,89500,37968	51 15042,99320	51 16020,40870	9,99991,70201,2882	11,70884,92884	52:48
	34267,25774	45277,45184	45268,72435	14884,9502	386,14132	
87	99980,55233,12194	50 69765,54136	50 70751,68435	9,99991,55316,3380	11,70498,78752	52:12
	34571,81591	44483,21266	44474,48515	15017,2954	382,74090	
86	99980,20661,30603	50 25282,32870	50 26277,19920	9,99991,40299,0426	11,70116,04662	51:36
	34876,37303	43709,69276	43700,96525	15149,6414	379,39991	
85	99979,85784,93300	49 81572,63594	49 82576,23395	9,99991,25149,4012	11,69736,64671	51: 0
	35180,92910	42956,17769	42947,45016	15281,9884	376,11677	
84	99979,50604,00390	49 38616,45825	49 39628,78379	9,99991,09867,4128	11,69360,52994	50:24
	35485,48409	42221,98352	42213,25597	15414,3362	372,89002	
83	99979,15118,51981	48 96394,47473	48 97415,52782	9,99990,94453,0766	11,68987,63992	49:48
	35790,03800	41506,45531	41497,72774	15546,6852	369,71821	
82	99978,79328,48181	48 54888,01942	48 55917,80008	9,99990,78906,3914	11,68617,92171	49:12
	36094,59082	40808,96561	40800,23804	15679,0349	366,59994	
81	99978,43233,89099	48 14079,05381	48 15117,56204	9,99990,63227,3565	11,68251,32177	48:36
	36399,14254	40128,91317	40120,18557	15811,3857	363,53388	
80	99978,06834,74845	47 73950,14064	47 74997,37647	9,99990,47415,9708	11,67887,78789	48: 0
	36703,69315	39465,72153	39456,99391	15943,7374	360,51872	
79	99977,70131,05530	47 34484,41911	47 35540,38256	9,99990,31472,2334	11,67527,26917	47:24
	37008,24264	38818,83787	38810,11025	16076,0900	357,55322	
78	99977,33122,81266	46 95665,58124	46 96730,27231	9,99990,15396,1434	11,67169,71595	46:48
	37312,79101	38187,73187	38179,00423	16208,4438	354,63614	
77	99976,95810,02165	46 57477,84937	46 58551,26808	9,99989,99187,6996	11,66815,07981	46:12
	37617,33824	37571,89457	37563,16690	16340,7984	351,76632	
76	99976,58192,68341	46 19905,95480	46 20988,10118	9,99989,82846,9012	11,66463,31349	45:36
	37921,88432	36970,83735	36962,10968	16473,1540	348,94261	
75	99976,20270,79909	45 82935,11745	45 84025,99150	9,99989,66373,7472	11,66114,37088	45: 0
	38226,42925	36384,09103	36375,36334	16605,5107	346,16392	
74	99975,82044,36984	45 46551,02642	45 47650,62816	9,99989,49768,2365	11,65768,20696	44:24
	38530,97301	35811,20485	35802,47714	16737,8683	343,42918	
73	99975,43513,39683	45 10739,82157	45 11848,15102	9,99989,33030,3682	11,65424,77778	43:48
	38835,51561	35251,74570	35243,01797	16870,2271	340,73734	
72	99975,04677,88122	44 75488,07587	44 76605,13305	9,99989,16160,1411	11,65084,04044	43:12
	39140,05701	34705,29722	34696,56948	17002,5867	338,08743	
71	99974,65537,82421	44 40782,77865	44 41908,56357	9,99988,99157,5544	11,64745,95301	42:36
	39444,59723	34171,45910	34162,73133	17134,9475	335,47844	
70	99974,26093,22698	44 06611,31955	44 07745,83224	9,99988,82022,6069	11,64410,47457	42: 0
	39749,13624	33649,84627	33641,11849	17267,3093	332,90946	
69	99973,86344,09074	43 72961,47328	43 74104,71375	9,99988,64755,2976	11,64077,56511	41:24
	40053,67404	33140,08827	33131,36048	17399,6721	330,37956	
68	99973,46290,41670	43 39821,38501	43 40973,35327	9,99988,47355,6255	11,63747,18555	40:48
	40358,21062	32641,82859	32633,10078	17532,0361	327,88786	
67	99973,05932,20608	43 07179,55642	43 08340,25249	9,99988,29823,5894	11,63419,29769	40:12
	40662,74598	32154,72397	32145,99614	17664,4010	325,43351	

GRAD. 88.

1. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	2321,07944,45087	2321,70493	1 00026,94794	8,36569,00054,8017	8,36580,70231	19:48
	17,44855,50440	17,46277	40685	325,25686,6960	325,43351	
34	2338,52799,95527	2339,16770	1 00027,35479	8,36894,25741,4977	8,36906,13582	20:24
	17,44848,38083	17,46291	40989	322,83769,9182	323,01567	
35	2355,97648,33610	2356,63061	1 00027,76468	8,37217,09511,4159	8,37229,15149	21: 0
	17,44841,20412	17,46306	41295	320,45423,2654	320,63352	
36	2373,42489,54022	2374,09367	1 00028,17763	8,37537,54934,6813	8,37549,78501	21:36
	17,44833,97425	17,46320	41600	318,10568,2724	318,28630	
37	2390,87323,51447	2391,55687	1 00028,59363	8,37855,65502,9537	8,37868,07131	22:12
	17,44826,69124	17,46335	41905	315,79128,7558	315,97323	
38	2408,32150,20571	2409,02022	1 00029,01268	8,38171,44631,7095	8,38184,04454	22:48
	17,44819,35507	17,46350	42210	313,51030,7332	313,69357	
39	2425,76969,56078	2426,48372	1 00029,43478	8,38484,95662,4427	8,38497,73811	23:24
	17,44811,96575	17,46364	42516	311,26202,3429	311,44661	
40	2443,21781,52653	2443,94736	1 00029,85994	8,38796,21864,7856	8,38809,18472	24: 0
	17,44804,52329	17,46379	42820	309,04573,7697	309,23164	
41	2460,66586,04982	2461,41115	1 00030,28814	8,39105,26438,5553	8,39118,41636	24:36
	17,44797,02767	17,46394	43125	306,86077,1719	307,04801	
42	2478,11383,07749	2478,87509	1 00030,71939	8,39412,12515,7272	8,39425,46437	25:12
	17,44789,47890	17,46410	43430	304,70646,6118	304,89502	
43	2495,56172,55639	2496,33919	1 00031,15369	8,39716,83162,3390	8,39730,35939	25:48
	17,44781,87698	17,46424	43736	302,58217,9903	302,77206	
44	2513,00954,43337	2513,80343	1 00031,59105	8,40019,41380,3293	8,40033,13145	26:24
	17,44774,22193	17,46440	44040	300,48728,9822	300,67850	
45	2530,45728,65530	2531,26783	1 00032,03145	8,40319,90109,3115	8,40333,80995	27: 0
	17,44766,51370	17,46455	44346	298,42118,9760	298,61372	
46	2547,90495,16900	2548,73238	1 00032,47491	8,40618,32228,2875	8,40632,42367	27:36
	17,44758,75235	17,46471	44651	296,38329,0152	296,57714	
47	2565,35253,92135	2566,19709	1 00032,92142	8,40914,70557,3027	8,40929,00081	28:12
	17,44750,93784	17,46486	44956	294,37301,7419	294,56819	
48	2582,80004,85919	2583,66195	1 00033,37098	8,41209,07859,0446	8,41223,56900	28:48
	17,44743,07017	17,46503	45261	292,38981,3435	292,58632	
49	2600,24747,92936	2601,12698	1 00033,82359	8,41501,46840,3881	8,41516,15532	29:24
	17,44735,14937	17,46518	45566	290,43313,5005	290,63096	
50	2617,69483,07873	2618,59216	1 00034,27925	8,41791,90153,8886	8,41806,78628	30: 0
	17,44727,17542	17,46534	45871	288,50245,3374	288,70160	
51	2635,14210,25415	2636,05750	1 00034,73796	8,42080,40399,2260	8,42095,48788	30:36
	17,44719,14831	17,46550	46177	286,59725,3746	286,79772	
52	2652,58929,40246	2653,52300	1 00035,19973	8,42367,00124,6006	8,42382,28560	31:12
	17,44711,06806	17,46566	46481	284,71703,4827	284,91883	
53	2670,03640,47052	2670,98866	1 00035,66454	8,42651,71828,0833	8,42667,20443	31:48
	17,44702,93467	17,46583	46787	282,86130,8389	283,06443	
54	2687,48343,40519	2688,45449	1 00036,13241	8,42934,57958,9222	8,42950,26886	32:24
	17,44694,74813	17,46599	47092	281,02959,8842	281,23404	
55	2704,93038,15332	2705,92048	1 00036,60333	8,43215,60918,8064	8,43231,50290	33: 0
	17,44686,50843	17,46615	47397	279,22144,2834	279,42721	
56	2722,37724,66175	2723,38663	1 00037,07730	8,43494,83063,0898	8,43510,93011	33:36
	17,44678,21561	17,46632	47702	277,43638,8849	277,64348	
57	2739,82402,87736	2740,85295	1 00037,55432	8,43772,26701,9747	8,43788,57359	34:12
	17,44669,86962	17,46649	48008	275,67399,6846	275,88242	
58	2757,27072,74698	2758,31944	1 00038,03440	8,44047,94101,6593	8,44064,45601	34:48
	17,44661,47049	17,46665	48312	273,93383,7884	274,14357	
59	2774,71734,21747	2775,78609	1 00038,51752	8,44321,87485,4477	8,44338,59958	35:24
	17,44653,01822	17,46683	48618	272,21549,3781	272,42656	
60	2792,16387,23569	2793,25292	1 00039,00370	8,44594,09034,8258	8,44611,02614	36: 0
	17,44644,51280	17,46700	48923	270,51855,6780	270,73094	
61	2809,61031,74849	2810,71992	1 00039,49293	8,44864,60890,5038	8,44881,75708	36:36
	17,44635,95424	17,46716	49229	268,84262,9216	269,05634	
62	2827,05667,70273	2828,18708	1 00039,98522	8,45133,45153,4254	8,45150,81342	37:12
	17,44627,34254	17,46734	49533	267,18732,3221	267,40236	
63	2844,50295,04527	2845,65442	1 00040,48055	8,45400,63885,7475	8,45418,21578	37:48
	17,44618,67768	17,46751	49839	265,55226,0412	265,76862	
64	2861,94913,72295	2863,12193	1 00040,97894	8,45666,19111,7887	8,45683,98440	38:24
	17,44609,95968	17,46769	50144	263,93707,1608	264,15475	
65	2879,39523,68263	2880,58962	1 00041,48038	8,45930,12818,9495	8,45948,13915	39: 0
	17,44601,18855	17,46786	50449	262,34139,6551	262,56041	
66	2896,84124,87118	2898,05748	1 00041,98487	8,46192,46958,6046	8,46210,69956	39:36
	17,44592,36427	17,46804	50755	260,76488,3635	260,98521	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	99973,05932,20608	43 07179,55642	43 08340,25249	9,99988,29823,5894	11,63419,29769	40:12
	40662,74598	32154,72397	32145,99614	17664,4010	325,43351	
66	99972,65269,46010	42 75024,83245	42 76194,25635	9,99988,12159,1884	11,63093,86418	39:36
	40967,28009	31678,44390	31669,71605	17796,7671	323,01567	
65	99972,24302,18001	42 43346,38855	42 44524,54030	9,99987,94362,4213	11,62770,84851	39: 0
	41271,81296	31212,67000	31203,94213	17929,1342	320,63352	
64	99971,83030,36705	42 12133,71855	42 13320,59817	9,99987,76433,2871	11,62450,21499	38:24
	41576,34457	30757,09554	30748,36765	18061,5024	318,28630	
63	99971,41454,02248	41 81376,62301	41 82572,23052	9,99987,58371,7847	11,62131,92869	37:48
	41880,87491	30311,42486	30302,69696	18193,8718	315,97323	
62	99970,99573,14757	41 51065,19815	41 52269,53356	9,99987,40177,9129	11,61815,95546	37:12
	42185,40398	29875,37298	29866,64506	18326,2422	313,69357	
61	99970,57387,74359	41 21189,82517	41 22402,88850	9,99987,21851,6707	11,61502,26189	36:36
	42489,93176	29448,66507	29439,93713	18458,6138	311,44661	
60	99970,14897,81183	40 91741,16010	40 92962,95137	9,99987,03393,0569	11,61190,81528	36: 0
	42794,45825	29031,03605	29022,30809	18590,9864	309,23164	
59	99969,72103,35358	40 62710,12405	40 63940,64328	9,99986,84802,0705	11,60881,58364	35:24
	43098,98343	28622,23018	28613,50220	18723,3603	307,04801	
58	99969,29004,37015	40 34087,89387	40 35327,14108	9,99986,66078,7102	11,60574,53563	34:48
	43403,50730	28222,00065	28213,27266	18855,7352	304,89502	
57	99968,85600,86285	40 05865,89322	40 07113,86842	9,99986,47222,9750	11,60269,64061	34:12
	43708,02985	27830,10924	27821,38123	18988,1114	302,77206	
56	99968,41892,83300	39 78035,78398	39 79292,48719	9,99986,28234,8636	11,59966,86855	33:36
	44012,55107	27446,32594	27437,59790	19120,4886	300,67850	
55	99967,97880,28193	39 50589,45804	39 51854,88929	9,99986,09114,3750	11,59666,19005	33: 0
	44317,07094	27070,42858	27061,70053	19252,8670	298,61372	
54	99967,53563,21099	39 23519,02946	39 24793,18876	9,99985,89861,5080	11,59367,57633	32:24
	44621,58948	26702,20261	26693,47453	19385,2466	296,57714	
53	99967,08941,62151	38 96816,82685	38 98099,71423	9,99985,70476,2614	11,59070,99919	31:48
	44926,10664	26341,44066	26332,71258	19517,6274	294,56819	
52	99966,64015,51487	38 70475,38619	38 71767,00165	9,99985,50958,6340	11,58776,43100	31:12
	45230,62244	25987,94240	25979,21428	19650,0094	292,58632	
51	99966,18784,89243	38 44487,44379	38 45787,78737	9,99985,31308,6246	11,58483,84468	30:36
	45535,13686	25641,51409	25632,78596	19782,3926	290,63096	
50	99965,73249,75557	38 18845,92970	38 20155,00141	9,99985,11526,2320	11,58193,21372	30: 0
	45839,64989	25301,96846	25293,24031	19914,7769	288,70160	
49	99965,27410,10568	37 93543,96124	37 94861,76110	9,99984,91611,4551	11,57904,51212	29:24
	46144,16153	24969,12440	24960,39622	20047,1626	286,79772	
48	99964,81265,94415	37 68574,83684	37 69901,36488	9,99984,71564,2925	11,57617,71440	28:48
	46448,67177	24642,80668	24634,07849	20179,5493	284,91883	
47	99964,34817,27238	37 43932,03016	37 45267,28639	9,99984,51384,7432	11,57332,79557	28:12
	46753,18058	24322,84581	24314,11760	20311,9374	283,06443	
46	99963,88064,09180	37 19609,18435	37 20953,16879	9,99984,31072,8058	11,57049,73114	27:36
	47057,68798	24009,07773	24000,34950	20444,3267	281,23404	
45	99963,41006,40382	36 95600,10662	36 96952,81929	9,99984,10628,4791	11,56768,49710	27: 0
	47362,19393	23701,34364	23692,61539	20576,7172	279,42721	
44	99962,93644,20989	36 71898,76298	36 73260,20390	9,99983,90051,7619	11,56489,06989	26:24
	47666,69845	23399,48984	23390,76156	20709,1090	277,64348	
43	99962,45977,51144	36 48499,27314	36 49869,44234	9,99983,69342,6529	11,56211,42641	25:48
	47971,20152	23103,36743	23094,63914	20841,5020	275,88242	
42	99961,98006,30992	36 25395,90571	36 26774,80320	9,99983,48501,1509	11,55935,54399	25:12
	48275,70312	22812,83223	22804,10391	20973,8964	274,14357	
41	99961,49730,60680	36 02583,07348	36 03970,69929	9,99983,27527,2545	11,55661,40042	24:36
	48580,20326	22527,74458	22519,01624	21106,2920	272,42656	
40	99961,01150,40354	35 80055,32890	35 81451,68305	9,99983,06420,9625	11,55388,97386	24: 0
	48884,70190	22247,96911	22239,24075	21238,6888	270,73094	
39	99960,52265,70164	35 57807,35979	35 59212,44230	9,99982,85182,2737	11,55118,24292	23:24
	49189,19907	21973,37467	21964,64629	21371,0870	269,05634	
38	99960,03076,50257	35 35833,98512	35 37247,79601	9,99982,63811,1867	11,54849,18658	22:48
	49493,69474	21703,83412	21695,10572	21503,4865	267,40236	
37	99959,53582,80783	35 14130,15100	35 15552,69029	9,99982,42307,7002	11,54581,78422	22:12
	49798,18890	21439,22418	21430,49576	21635,8873	265,76862	
36	99959,03784,61893	34 92690,92682	34 94122,19453	9,99982,20671,8129	11,54316,01560	21:36
	50102,68153	21179,42534	21170,69690	21768,2895	264,15475	
35	99958,53681,93740	34 71511,50148	34 72951,49763	9,99981,98903,5234	11,54051,86085	21: 0
	50407,17265	20924,32166	20915,59320	21900,6928	262,56041	
34	99958,03274,76475	34 50587,17982	34 52035,90443	9,99981,77002,8306	11,53789,30044	20:24
	50711,66223	20673,80068	20665,07219	22033,0976	260,98521	

GRAD. 88.

1. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	2914,28717,23545	2915,52552	1 00042,49242	8,46453,23446,9681	8,46471,68477	40:12
	17,44583,48683	17,46822	51060	259,20718,9656	259,42885	
68	2931,73300,72228	2932,99374	1 00043,00302	8,46712,44165,9337	8,46731,11362	40:48
	17,44574,55627	17,46840	51365	257,66797,9555	257,89096	
69	2949,17875,27855	2950,46214	1 00043,51667	8,46970,10963,8892	8,46989,00458	41:24
	17,44565,57256	17,46857	51670	256,14692,6178	256,37123	
70	2966,62440,85111	2967,93071	1 00044,03337	8,47226,25656,5070	8,47245,37581	42: 0
	17,44556,53570	17,46876	51976	254,64371,0050	254,86933	
71	2984,06997,38681	2985,39947	1 00044,55313	8,47480,90027,5120	8,47500,24514	42:36
	17,44547,44570	17,46894	52280	253,15801,9143	253,38497	
72	3001,51544,83251	3002,86841	1 00045,07593	8,47734,05829,4263	8,47753,63011	43:12
	17,44538,30257	17,46912	52587	251,68954,8671	251,91783	
73	3018,96083,13508	3020,33753	1 00045,60180	8,47985,74784,2934	8,48005,54794	43:48
	17,44529,10628	17,46931	52891	250,23800,0866	250,46760	
74	3036,40612,24136	3037,80684	1 00046,13071	8,48235,98584,3800	8,48256,01554	44:24
	17,44519,85687	17,46949	53197	248,80308,4796	249,03401	
75	3053,85132,09823	3055,27633	1 00046,66268	8,48484,78892,8596	8,48505,04955	45: 0
	17,44510,55430	17,46968	53502	247,38451,6151	247,61676	
76	3071,29642,65253	3072,74601	1 00047,19770	8,48732,17344,4747	8,48752,66631	45:36
	17,44501,19859	17,46986	53808	245,98201,7068	246,21559	
77	3088,74143,85112	3090,21587	1 00047,73578	8,48978,15546,1815	8,48998,88190	46:12
	17,44491,78975	17,47006	54113	244,59531,5949	244,83021	
78	3106,18635,64087	3107,68593	1 00048,27691	8,49222,75077,7764	8,49243,71211	46:48
	17,44482,32777	17,47024	54418	243,22414,7276	243,46037	
79	3123,63117,96864	3125,15617	1 00048,82109	8,49465,97492,5040	8,49487,17248	47:24
	17,44472,81264	17,47043	54723	241,86825,1452	242,10580	
80	3141,07590,78128	3142,62660	1 00049,36832	8,49707,84317,6492	8,49729,27828	48: 0
	17,44463,24438	17,47063	55029	240,52737,4633	240,76624	
81	3158,52054,02566	3160,09723	1 00049,91861	8,49948,37055,1125	8,49970,04452	48:36
	17,44453,62297	17,47082	55335	239,20126,8567	239,44146	
82	3175,96507,64863	3177,56805	1 00050,47196	8,50187,57181,9692	8,50209,48598	49:12
	17,44443,94844	17,47101	55639	237,88969,0445	238,13121	
83	3193,40951,59707	3195,03906	1 00051,02835	8,50425,46151,0137	8,50447,61719	49:48
	17,44434,22075	17,47121	55945	236,59240,2752	236,83524	
84	3210,85385,81782	3212,51027	1 00051,58780	8,50662,05391,2889	8,50684,45243	50:24
	17,44424,43992	17,47140	56251	235,30917,3119	235,55334	
85	3228,29810,25774	3229,98167	1 00052,15031	8,50897,36308,6008	8,50920,00577	51: 0
	17,44414,60598	17,47160	56556	234,03977,4191	234,28527	
86	3245,74224,86372	3247,45327	1 00052,71587	8,51131,40286,0199	8,51154,29104	51:36
	17,44404,71887	17,47180	56861	232,78398,3487	233,03080	
87	3263,18629,58259	3264,92507	1 00053,28448	8,51364,18684,3686	8,51387,32184	52:12
	17,44394,77864	17,47199	57167	231,54158,3274	231,78972	
88	3280,63024,36123	3282,39706	1 00053,85615	8,51595,72842,6960	8,51619,11156	52:48
	17,44384,78527	17,47220	57472	230,31236,0439	230,56182	
89	3298,07409,14650	3299,86926	1 00054,43087	8,51826,04078,7399	8,51849,67338	53:24
	17,44374,73876	17,47240	57778	229,09610,6365	229,34690	
90	3315,51783,88526	3317,34166	1 00055,00865	8,52055,13689,3764	8,52079,02028	54: 0
	17,44364,63912	17,47260	58083	227,89261,6821	228,14473	
91	3332,96148,52438	3334,81426	1 00055,58948	8,52283,02951,0585	8,52307,16501	54:36
	17,44354,48633	17,47281	58389	226,70169,1837	226,95513	
92	3350,40503,01071	3352,28707	1 00056,17337	8,52509,73120,2422	8,52534,12014	55:12
	17,44344,28042	17,47300	58694	225,52313,5599	225,77789	
93	3367,84847,29113	3369,76007	1 00056,76031	8,52735,25433,8021	8,52759,89803	55:48
	17,44334,02137	17,47322	58999	224,35675,6342	224,61284	
94	3385,29181,31250	3387,23329	1 00057,35030	8,52959,61109,4363	8,52984,51087	56:24
	17,44323,70917	17,47342	59305	223,20236,6247	223,45978	
95	3402,73505,02167	3404,70671	1 00057,94335	8,53182,81346,0610	8,53207,97065	57: 0
	17,44313,34386	17,47363	59611	222,05978,1332	222,31852	
96	3420,17818,36553	3422,18034	1 00058,53946	8,53404,87324,1942	8,53430,28917	57:36
	17,44302,92539	17,47383	59916	220,92882,1366	221,18888	
97	3437,62121,29092	3439,65417	1 00059,13862	8,53625,80206,3308	8,53651,47805	58:12
	17,44292,45380	17,47405	60221	219,80930,9765	220,07069	
98	3455,06413,74472	3457,12822	1 00059,74083	8,53845,61137,3073	8,53871,54874	58:48
	17,44281,92908	17,47426	60527	218,70107,3505	218,96378	
99	3472,50695,67380	3474,60248	1 00060,34610	8,54064,31244,6578	8,54090,51252	59:24
	17,44271,35121	17,47447	60833	217,60394,3029	217,86798	
100	3489,94967,02501	3492,07695	1 00060,95443	8,54281,91638,9607	8,54308,38050	60: 0
	17,44260,72022	17,47468	61138	216,51775,2166	216,78311	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	99957,52563,10252	34 29913,37914	34 31370,83224	9,99981,54969,7330	11,53528,31523	19:48
	51016,15027	20427,75329	20419,02477	22165,5038	259,42885	
32	99957,01546,95225	34 09485,62585	34 10951,80747	9,99981,32804,2292	11,53268,88638	19:12
	51320,63675	20186,07360	20177,34507	22297,9112	257,89096	
31	99956,50226,31550	33 89299,55225	33 90774,46240	9,99981,10506,3180	11,53010,99542	18:36
	51625,12166	19948,65885	19939,93029	22430,3200	256,37123	
30	99955,98601,19384	33 69350,89340	33 70834,53211	9,99980,88075,9980	11,52754,62419	18: 0
	51929,60501	19715,40927	19706,68070	22562,7303	254,86933	
29	99955,46671,58883	33 49635,48413	33 51127,85141	9,99980,65513,2677	11,52499,75486	17:24
	52234,08677	19486,22800	19477,49939	22695,1418	253,38497	
28	99954,94437,50206	33 30149,25613	33 31650,35202	9,99980,42818,1259	11,52246,36989	16:48
	52538,56694	19261,02097	19252,29235	22827,5548	251,91783	
27	99954,41898,93512	33 10888,23516	33 12398,05967	9,99980,19990,5711	11,51994,45206	16:12
	52843,04551	19039,69681	19030,96817	22959,9691	250,46760	
26	99953,89055,88961	32 91848,53835	32 93367,09150	9,99979,97030,6020	11,51743,98446	15:36
	53147,52248	18822,16680	18813,43812	23092,3849	249,03401	
25	99953,35908,36713	32 73026,37155	32 74553,65338	9,99979,73938,2171	11,51494,95045	15: 0
	53451,99782	18608,34467	18599,61598	23224,8020	247,61676	
24	99952,82456,36931	32 54418,02688	32 55954,03740	9,99979,50713,4151	11,51247,33369	14:24
	53756,47153	18398,14665	18389,41793	23357,2206	246,21559	
23	99952,28699,89778	32 36019,88023	32 37564,61947	9,99979,27356,1945	11,51001,11810	13:48
	54060,94361	18191,49130	18182,76256	23489,6406	244,83021	
22	99951,74638,95417	32 17828,38893	32 19381,85691	9,99979,03866,5539	11,50756,28789	13:12
	54365,41404	17988,29944	17979,57068	23622,0620	243,46037	
21	99951,20273,54013	31 99840,08949	32 01402,28623	9,99978,80244,4919	11,50512,82752	12:36
	54669,88281	17788,49411	17779,76532	23754,4849	242,10580	
20	99950,65603,65732	31 82051,59538	31 83622,52091	9,99978,56490,0070	11,50270,72172	12: 0
	54974,34993	17592,00048	17583,27166	23886,9093	240,76624	
19	99950,10629,30739	31 64459,59490	31 66039,24925	9,99978,32603,0977	11,50029,95548	11:24
	55278,81535	17398,74575	17390,01692	24019,3350	239,44146	
18	99949,55350,49204	31 47060,84915	31 48649,23233	9,99978,08583,7627	11,49790,51402	10:48
	55583,27911	17208,65912	17199,93026	24151,7622	238,13121	
17	99948,99767,21293	31 29852,19003	31 31449,30207	9,99977,84432,0005	11,49552,38281	10:12
	55887,74116	17021,67175	17012,94287	24284,1910	236,83524	
16	99948,43879,47177	31 12830,51828	31 14436,35920	9,99977,60147,8095	11,49315,54757	9:36
	56192,20152	16837,71660	16828,98768	24416,6211	235,55334	
15	99947,87687,27025	30 95992,80168	30 97607,37152	9,99977,35731,1884	11,49079,99423	9: 0
	56496,66016	16656,72846	16647,99953	24549,0529	234,28527	
14	99947,31190,61009	30 79336,07322	30 80959,37199	9,99977,11182,1355	11,48845,70896	8:24
	56801,11709	16478,64388	16469,91492	24681,4860	233,03080	
13	99946,74389,49300	30 62857,42934	30 64489,45707	9,99976,86500,6495	11,48612,67816	7:48
	57105,57227	16303,40108	16294,67210	24813,9207	231,78972	
12	99946,17283,92073	30 46554,02826	30 48194,78497	9,99976,61686,7288	11,48380,88844	7:12
	57410,02573	16130,93990	16122,21089	24946,3569	230,56182	
11	99945,59873,89500	30 30423,08836	30 32072,57408	9,99976,36740,3719	11,48150,32662	6:36
	57714,47743	15961,20180	15952,47277	25078,7946	229,34690	
10	99945,02159,41757	30 14461,88656	30 16120,10131	9,99976,11661,5773	11,47920,97972	6: 0
	58018,92737	15794,12975	15785,40069	25211,2339	228,14473	
9	99944,44140,49020	29 98667,75681	30 00334,70062	9,99975,86450,3434	11,47692,83499	5:24
	58323,37556	15629,66819	15620,93911	25343,6746	226,95513	
8	99943,85817,11464	29 83038,08862	29 84713,76151	9,99975,61106,6688	11,47465,87986	4:48
	58627,82195	15467,76303	15459,03392	25476,1170	225,77789	
7	99943,27189,29269	29 67570,32559	29 69254,72759	9,99975,35630,5518	11,47240,10197	4:12
	58932,26657	15308,36156	15299,63243	25608,5609	224,61284	
6	99942,68257,02612	29 52261,96403	29 53955,09516	9,99975,10021,9909	11,47015,48913	3:36
	59236,70939	15151,41242	15142,68326	25741,0064	223,45978	
5	99942,09020,31673	29 37110,55161	29 38812,41190	9,99974,84280,9845	11,46792,02935	3: 0
	59541,15041	14996,86557	14988,13637	25873,4533	222,31852	
4	99941,49479,16632	29 22113,68604	29 23824,27553	9,99974,58407,5312	11,46569,71083	2:24
	59845,58960	14844,67221	14835,94300	26005,9020	221,18888	
3	99940,89633,57672	29 07269,01383	29 08988,33253	9,99974,32401,6292	11,46348,52195	1:48
	60150,02699	14694,78482	14686,05559	26138,3521	220,07069	
2	99940,29483,54973	28 92574,22901	28 94302,27694	9,99974,06263,2771	11,46128,45126	1:12
	60454,46253	14547,15704	14538,42777	26270,8039	218,96378	
1	99939,69029,08720	28 78027,07197	28 79763,84917	9,99973,79992,4732	11,45909,48748	0:36
	60758,89624	14401,74368	14393,01439	26403,2573	217,86798	
0	99939,08270,19096	28 63625,32829	28 65370,83478	9,99973,53589,2159	11,45691,61950	0: 0
	61063,32810	14258,50066	14249,77134	26535,7123	216,78311	

GRAD. 88.

2. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
0	3489,94967,02501	3492,07695	1 00060,95443	8,54281,91638,9607	8,54308,38050	0: 0
	17,44260,72022	17,47468	61138	216,51775,2166	216,78311	
1	3507,39227,74523	3509,55163	1 00061,56581	8,54498,43414,1773	8,54525,16361	0:36
	17,44250,03609	17,47490	61444	215,44233,8041	215,70902	
2	3524,83477,78132	3527,02653	1 00062,18025	8,54713,87647,9814	8,54740,87263	1:12
	17,44239,29883	17,47511	61749	214,37754,0998	214,64554	
3	3542,27717,08015	3544,50164	1 00062,79774	8,54928,25402,0812	8,54955,51817	1:48
	17,44228,50843	17,47533	62055	213,32320,4518	213,59254	
4	3559,71945,58858	3561,97697	1 00063,41829	8,55141,57722,5330	8,55169,11071	2:24
	17,44217,66492	17,47554	62360	212,27917,5145	212,54983	
5	3577,16163,25350	3579,45251	1 00064,04189	8,55353,85640,0475	8,55381,66054	3: 0
	17,44206,76825	17,47577	62667	211,24530,2407	211,51728	
6	3594,60370,02175	3596,92828	1 00064,66856	8,55565,10170,2882	8,55593,17782	3:36
	17,44195,81846	17,47598	62971	210,22143,8750	210,49475	
7	3612,04565,84021	3614,40426	1 00065,29827	8,55775,32314,1632	8,55803,67257	4:12
	17,44184,81555	17,47621	63277	209,20743,9465	209,48206	
8	3629,48750,65576	3631,88047	1 00065,93104	8,55984,53058,1097	8,56013,15463	4:48
	17,44173,75949	17,47642	63583	208,20316,2614	208,47912	
9	3646,92924,41525	3649,35689	1 00066,56687	8,56192,73374,3711	8,56221,63375	5:24
	17,44162,65031	17,47665	63889	207,20846,8975	207,48575	
10	3664,37087,06556	3666,83354	1 00067,20576	8,56399,94221,2686	8,56429,11950	6: 0
	17,44151,48800	17,47687	64194	206,22322,1969	206,50182	
11	3681,81238,55356	3684,31041	1 00067,84770	8,56606,16543,4655	8,56635,62132	6:36
	17,44140,27256	17,47710	64500	205,24728,7599	205,52722	
12	3699,25378,82612	3701,78751	1 00068,49270	8,56811,41272,2254	8,56841,14854	7:12
	17,44129,00399	17,47732	64805	204,28053,4392	204,56179	
13	3716,69507,83011	3719,26483	1 00069,14075	8,57015,69325,6646	8,57045,71033	7:48
	17,44117,68228	17,47755	65111	203,32283,3337	203,60541	
14	3734,13625,51239	3736,74238	1 00069,79186	8,57219,01608,9983	8,57249,31574	8:24
	17,44106,30746	17,47778	65417	202,37405,7832	202,65796	
15	3751,57731,81985	3754,22016	1 00070,44603	8,57421,39014,7815	8,57451,97370	9: 0
	17,44094,87950	17,47800	65723	201,43408,3620	201,71931	
16	3769,01826,69935	3771,69816	1 00071,10326	8,57622,82423,1435	8,57653,69301	9:36
	17,44083,39841	17,47824	66028	200,50278,8743	200,78934	
17	3786,45910,09776	3789,17640	1 00071,76354	8,57823,32702,0178	8,57854,48235	10:12
	17,44071,86420	17,47847	66334	199,58005,3485	199,86793	
18	3803,89981,96196	3806,65487	1 00072,42688	8,58022,90707,3663	8,58054,35028	10:48
	17,44060,27685	17,47870	66639	198,66576,0323	198,95496	
19	3821,34042,23881	3824,13357	1 00073,09327	8,58221,57283,3986	8,58253,30524	11:24
	17,44048,63639	17,47893	66946	197,75979,3872	198,05032	
20	3838,78090,87520	3841,61250	1 00073,76273	8,58419,33262,7858	8,58451,35556	12: 0
	17,44036,94279	17,47917	67251	196,86204,0845	197,15390	
21	3856,22127,81799	3859,09167	1 00074,43524	8,58616,19466,8703	8,58648,50946	12:36
	17,44025,19607	17,47940	67557	195,97238,9997	196,26556	
22	3873,66153,01406	3876,57107	1 00075,11081	8,58812,16705,8700	8,58844,77502	13:12
	17,44013,39623	17,47964	67862	195,09073,2085	195,38524	
23	3891,10166,41029	3894,05071	1 00075,78943	8,59007,25779,0785	8,59040,16026	13:48
	17,44001,54325	17,47988	68169	194,21695,9821	194,51278	
24	3908,54167,95354	3911,53059	1 00076,47112	8,59201,47475,0606	8,59234,67304	14:24
	17,43989,63715	17,48011	68474	193,35096,7826	193,64812	
25	3925,98157,59069	3929,01070	1 00077,15586	8,59394,82571,8432	8,59428,32116	15: 0
	17,43977,67792	17,48036	68780	192,49265,2596	192,79113	
26	3943,42135,26861	3946,49106	1 00077,84366	8,59587,31837,1028	8,59621,11229	15:36
	17,43965,66558	17,48059	69086	191,64191,2448	191,94172	
27	3960,86100,93419	3963,97165	1 00078,53452	8,59778,96028,3476	8,59813,05401	16:12
	17,43953,60011	17,48084	69391	190,79864,7491	191,09977	
28	3978,30054,53430	3981,45249	1 00079,22843	8,59969,75893,0967	8,60004,15378	16:48
	17,43941,48151	17,48108	69698	189,96275,9583	190,26521	
29	3995,73996,01581	3998,93357	1 00079,92541	8,60159,72169,0550	8,60194,41899	17:24
	17,43929,30979	17,48133	70003	189,13415,2291	189,43793	
30	4013,17925,32560	4016,41490	1 00080,62544	8,60348,85584,2841	8,60383,85692	18: 0
	17,43917,08494	17,48157	70309	188,31273,0854	188,61783	
31	4030,61842,41054	4033,89647	1 00081,32853	8,60537,16857,3695	8,60572,47475	18:36
	17,43904,80698	17,48181	70615	187,49840,2152	187,80483	
32	4048,05747,21752	4051,37828	1 00082,03468	8,60724,66697,5847	8,60760,27958	19:12
	17,43892,47590	17,48207	70921	186,69107,4665	186,99883	
33	4065,49639,69342	4068,86035	1 00082,74389	8,60911,35805,0512	8,60947,27841	19:48
	17,43880,09168	17,48231	71227	185,89065,8441	186,19973	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
100	99939,08270,19096	28 63625,32829	28 65370,83478	9,99973,53589,2159	11,45691,61950	60: 0
	61063,32810	14258,50066	14249,77134	26535,7123	216,78311	
99	99938,47206,86286	28 49366,82763	28 51121,06344	9,99973,27053,5036	11,45474,83639	59:24
	61367,75808	14117,38502	14108,65567	26668,1689	215,70902	
98	99937,85839,10478	28 35249,44261	28 37012,40777	9,99973,00385,3347	11,45259,12737	58:48
	61672,18621	13978,35482	13969,62545	26800,6272	214,64554	
97	99937,24166,91857	28 21271,08779	28 23042,78232	9,99972,73584,7075	11,45044,48183	58:12
	61976,61246	13841,36920	13832,63980	26933,0870	213,59254	
96	99936,62190,30611	28 07429,71859	28 09210,14252	9,99972,46651,6205	11,44830,88929	57:36
	62281,03682	13706,38823	13697,65881	27065,5485	212,54983	
95	99935,99909,26929	27 93723,33036	27 95512,48371	9,99972,19586,0720	11,44618,33946	57: 0
	62585,45928	13573,37302	13564,64356	27198,0117	211,51728	
94	99935,37323,81001	27 80149,95734	27 81947,84015	9,99971,92388,0603	11,44406,82218	56:24
	62889,87983	13442,28556	13433,55608	27330,4766	210,49475	
93	99934,74433,93018	27 66707,67178	27 68514,28407	9,99971,65057,5837	11,44196,32743	55:48
	63194,29847	13313,08878	13304,35927	27462,9430	209,48206	
92	99934,11239,63171	27 53394,58300	27 55209,92480	9,99971,37594,6407	11,43986,84537	55:12
	63498,71518	13185,74650	13177,01697	27595,4111	208,47912	
91	99933,47740,91653	27 40208,83650	27 42032,90783	9,99971,09999,2296	11,43778,36625	54:36
	63803,12997	13060,22340	13051,49384	27727,8811	207,48575	
90	99932,83937,78656	27 27148,61310	27 28981,41399	9,99970,82271,3485	11,43570,88050	54: 0
	64107,54280	12936,48499	12927,75539	27860,3526	206,50182	
89	99932,19830,24376	27 14212,12811	27 16053,65860	9,99970,54410,9959	11,43364,37868	53:24
	64411,95368	12814,49759	12805,76798	27992,8258	205,52722	
88	99931,55418,29008	27 01397,63052	27 03247,89062	9,99970,26418,1701	11,43158,85146	52:48
	64716,36261	12694,22833	12685,49868	28125,3007	204,56179	
87	99930,90701,92747	26 88703,40219	26 90562,39194	9,99969,98292,8694	11,42954,28967	52:12
	65020,76955	12575,64508	12566,91540	28257,7775	203,60541	
86	99930,25681,15792	26 76127,75711	26 77995,47654	9,99969,70035,0919	11,42750,68426	51:36
	65325,17452	12458,71649	12449,98678	28390,2558	202,65796	
85	99929,60355,98340	26 63669,04062	26 65545,48976	9,99969,41644,8361	11,42548,02630	51: 0
	65629,57751	12343,41190	12334,68217	28522,7359	201,71931	
84	99928,94726,40589	26 51325,62872	26 53210,80759	9,99969,13122,1002	11,42346,30699	50:24
	65933,97848	12229,70138	12220,97162	28655,2179	200,78934	
83	99928,28792,42741	26 39095,92734	26 40989,83597	9,99968,84466,8823	11,42145,51765	49:48
	66238,37745	12117,55569	12108,82590	28787,7014	199,86793	
82	99927,62554,04996	26 26978,37165	26 28881,01007	9,99968,55679,1809	11,41945,64972	49:12
	66542,77441	12006,94625	11998,21643	28920,1868	198,95496	
81	99926,96011,27555	26 14971,42540	26 16882,79364	9,99968,26758,9941	11,41746,69476	48:36
	66847,16934	11897,84511	11889,11526	29052,6739	198,05032	
80	99926,29164,10621	26 03073,58029	26 04993,67838	9,99967,97706,3202	11,41548,64444	48: 0
	67151,56222	11790,22498	11781,49510	29185,1628	197,15390	
79	99925,62012,54399	25 91283,35531	25 93212,18328	9,99967,68521,1574	11,41351,49054	47:24
	67455,95307	11684,05918	11675,32927	29317,6535	196,26556	
78	99924,94556,59092	25 79599,29613	25 81536,85401	9,99967,39203,5039	11,41155,22498	46:48
	67760,34186	11579,32162	11570,59169	29450,1460	195,38524	
77	99924,26796,24906	25 68019,97451	25 69966,26232	9,99967,09753,3579	11,40959,83974	46:12
	68064,72859	11475,98680	11467,25683	29582,6402	194,51278	
76	99923,58731,52047	25 56543,98771	25 58499,00549	9,99966,80170,7177	11,40765,32696	45:36
	68369,11324	11374,02977	11365,29978	29715,1364	193,64812	
75	99922,90362,40723	25 45169,95794	25 47133,70571	9,99966,50455,5813	11,40571,67884	45: 0
	68673,49581	11273,42616	11264,69613	29847,6342	192,79113	
74	99922,21688,91142	25 33896,53178	25 35869,00958	9,99966,20607,9471	11,40378,88771	44:24
	68977,87629	11174,15211	11165,42205	29980,1339	191,94172	
73	99921,52711,03513	25 22722,37967	25 24703,58753	9,99965,90627,8132	11,40186,94599	43:48
	69282,25466	11076,18429	11067,45421	30112,6355	191,09977	
72	99920,83428,78047	25 11646,19538	25 13636,13332	9,99965,60515,1777	11,39995,84622	43:12
	69586,63093	10979,49990	10970,76978	30245,1388	190,26521	
71	99920,13842,14954	25 00666,69548	25 02665,36354	9,99965,30270,0389	11,39805,58101	42:36
	69891,00508	10884,07662	10875,34646	30377,6441	189,43793	
70	99919,43951,14446	24 89782,61886	24 91790,01708	9,99964,99892,3948	11,39616,14308	42: 0
	70195,37710	10789,89258	10781,16241	30510,1511	188,61783	
69	99918,73755,76736	24 78992,72628	24 81008,85467	9,99964,69382,2437	11,39427,52525	41:24
	70499,74697	10696,92645	10688,19625	30642,6601	187,80483	
68	99918,03256,02039	24 68295,79983	24 70320,65842	9,99964,38739,5836	11,39239,72042	40:48
	70804,11471	10605,15732	10596,42707	30775,1709	186,99883	
67	99917,32451,90568	24 57690,64251	24 59724,23135	9,99964,07964,4127	11,39052,72159	40:12
	71108,48028	10514,56470	10505,83443	30907,6835	186,19973	

GRAD. 87.

2. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	4065,49639,69342	4068,86035	1 00082,74389	8,60911,35805,0512	8,60947,27841	19:48
	17,43880,09168	17,48231	71227	185,89065,8441	186,19973	
34	4082,93519,78510	4086,34266	1 00083,45616	8,61097,24870,8953	8,61133,47814	20:24
	17,43867,65435	17,48256	71532	185,09706,5061	185,40747	
35	4100,37387,43945	4103,82522	1 00084,17148	8,61282,34577,4014	8,61318,88561	21: 0
	17,43855,16390	17,48281	71839	184,31020,7612	184,62193	
36	4117,81242,60335	4121,30803	1 00084,88987	8,61466,65598,1626	8,61503,50754	21:36
	17,43842,62032	17,48306	72144	183,53000,0646	183,84306	
37	4135,25085,22367	4138,79109	1 00085,61131	8,61650,18598,2272	8,61687,35060	22:12
	17,43830,02363	17,48332	72451	182,75636,0158	183,07073	
38	4152,68915,24730	4156,27441	1 00086,33582	8,61832,94234,2430	8,61870,42133	22:48
	17,43817,37382	17,48357	72756	181,98920,3548	182,30491	
39	4170,12732,62112	4173,75798	1 00087,06338	8,62014,93154,5978	8,62052,72624	23:24
	17,43804,67088	17,48382	73062	181,22844,9600	181,54548	
40	4187,56537,29200	4191,24180	1 00087,79400	8,62196,15999,5578	8,62234,27172	24: 0
	17,43791,91482	17,48408	73368	180,47401,8445	180,79237	
41	4205,00329,20682	4208,72588	1 00088,52768	8,62376,63401,4023	8,62415,06409	24:36
	17,43779,10566	17,48434	73674	179,72583,1541	180,04551	
42	4222,44108,31248	4226,21022	1 00089,26442	8,62556,35984,5564	8,62595,10960	25:12
	17,43766,24336	17,48460	73980	178,98381,1637	179,30482	
43	4239,87874,55584	4243,69482	1 00090,00422	8,62735,34365,7201	8,62774,41442	25:48
	17,43753,32796	17,48485	74287	178,24788,2752	178,57021	
44	4257,31627,88380	4261,17967	1 00090,74709	8,62913,59153,9953	8,62952,98463	26:24
	17,43740,35942	17,48511	74592	177,51797,0152	177,84162	
45	4274,75368,24322	4278,66478	1 00091,49301	8,63091,10951,0105	8,63130,82625	27: 0
	17,43727,33779	17,48538	74898	176,79400,0316	177,11898	
46	4292,19095,58101	4296,15016	1 00092,24199	8,63267,90351,0421	8,63307,94523	27:36
	17,43714,26302	17,48564	75204	176,07590,0919	176,40221	
47	4309,62809,84403	4313,63580	1 00092,99403	8,63443,97941,1340	8,63484,34744	28:12
	17,43701,13514	17,48590	75510	175,36360,0802	175,69123	
48	4327,06510,97917	4331,12170	1 00093,74913	8,63619,34301,2142	8,63660,03867	28:48
	17,43687,95415	17,48616	75816	174,65702,9955	174,98599	
49	4344,50198,93332	4348,60786	1 00094,50729	8,63794,00004,2097	8,63835,02466	29:24
	17,43674,72004	17,48643	76123	173,95611,9488	174,28640	
50	4361,93873,65336	4366,09429	1 00095,26852	8,63967,95616,1585	8,64009,31106	30: 0
	17,43661,43281	17,48670	76428	173,26080,1611	173,59241	
51	4379,37535,08617	4383,58099	1 00096,03280	8,64141,21696,3196	8,64182,90347	30:36
	17,43648,09248	17,48696	76734	172,57100,9613	172,90394	
52	4396,81183,17865	4401,06795	1 00096,80014	8,64313,78797,2809	8,64355,80741	31:12
	17,43634,69902	17,48723	77041	171,88667,7840	172,22093	
53	4414,24817,87767	4418,55518	1 00097,57055	8,64485,67465,0649	8,64528,02834	31:48
	17,43621,25245	17,48751	77347	171,20774,1674	171,54333	
54	4431,68439,13012	4436,04269	1 00098,34402	8,64656,88239,2323	8,64699,57167	32:24
	17,43607,75277	17,48777	77652	170,53413,7512	170,87104	
55	4449,12046,88289	4453,53046	1 00099,12054	8,64827,41652,9835	8,64870,44271	33: 0
	17,43594,19997	17,48805	77959	169,86580,2745	170,20404	
56	4466,55641,08286	4471,01851	1 00099,90013	8,64997,28233,2580	8,65040,64675	33:36
	17,43580,59406	17,48831	78265	169,20267,5746	169,54224	
57	4483,99221,67692	4488,50682	1 00100,68278	8,65166,48500,8326	8,65210,18899	34:12
	17,43566,93505	17,48860	78571	168,54469,5838	168,88558	
58	4501,42788,61197	4505,99542	1 00101,46849	8,65335,02970,4164	8,65379,07457	34:48
	17,43553,22290	17,48886	78878	167,89180,3289	168,23401	
59	4518,86341,83487	4523,48428	1 00102,25727	8,65502,92150,7453	8,65547,30858	35:24
	17,43539,45767	17,48915	79183	167,24393,9285	167,58748	
60	4536,29881,29254	4540,97343	1 00103,04910	8,65670,16544,6738	8,65714,89606	36: 0
	17,43525,63930	17,48942	79490	166,60104,5914	166,94591	
61	4553,73406,93184	4558,46285	1 00103,84400	8,65836,76649,2652	8,65881,84197	36:36
	17,43511,76784	17,48970	79796	165,96306,6151	166,30925	
62	4571,16918,69968	4575,95255	1 00104,64196	8,66002,72955,8803	8,66048,15122	37:12
	17,43497,84327	17,48998	80102	165,32994,3844	165,67746	
63	4588,60416,54295	4593,44253	1 00105,44298	8,66168,05950,2647	8,66213,82868	37:48
	17,43483,86557	17,49026	80408	164,70162,3684	165,05046	
64	4606,03900,40852	4610,93279	1 00106,24706	8,66332,76112,6331	8,66378,87914	38:24
	17,43469,83478	17,49054	80715	164,07805,1209	164,42822	
65	4623,47370,24330	4628,42333	1 00107,05421	8,66496,83917,7540	8,66543,30736	39: 0
	17,43455,75087	17,49082	81021	163,45917,2769	163,81067	
66	4640,90825,99417	4645,91415	1 00107,86442	8,66660,29835,0309	8,66707,11803	39:36
	17,43441,61386	17,49111	81327	162,84493,5525	163,19775	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	99917,32451,90568	24 57690,64251	24 59724,23135	9,99964,07964,4127	11,39052,72159	40:12
	71108,48028	10514,56470	10505,83443	30907,6835	186,19973	
66	99916,61343,42540	24 47176,07781	24 49218,39692	9,99963,77056,7292	11,38866,52186	39:36
	71412,84369	10425,12859	10416,39829	31040,1982	185,40747	
65	99915,89930,58171	24 36750,94922	24 38801,99863	9,99963,46016,5310	11,38681,11439	39: 0
	71717,20492	10336,82938	10328,09905	31172,7146	184,62193	
64	99915,18213,37679	24 26414,11984	24 28473,89958	9,99963,14843,8164	11,38496,49246	38:24
	72021,56398	10249,64788	10240,91751	31305,2330	183,84306	
63	99914,46191,81281	24 16164,47196	24 18232,98207	9,99962,83538,5834	11,38312,64940	37:48
	72325,92083	10163,56531	10154,83491	31437,7532	183,07073	
62	99913,73865,89198	24 06000,90665	24 08078,14716	9,99962,52100,8302	11,38129,57867	37:12
	72630,27548	10078,56327	10069,83285	31570,2755	182,30491	
61	99913,01235,61650	23 95922,34338	23 98008,31431	9,99962,20530,5547	11,37947,27376	36:36
	72934,62792	9994,62376	9985,89329	31702,7995	181,54548	
60	99912,28300,98858	23 85927,71962	23 88022,42102	9,99961,88827,7552	11,37765,72828	36: 0
	73238,97813	9911,72913	9902,99865	31835,3257	180,79237	
59	99911,55062,01045	23 76015,99049	23 78119,42237	9,99961,56992,4295	11,37584,93591	35:24
	73543,32613	9829,86214	9821,13161	31967,8536	180,04551	
58	99910,81518,68432	23 66186,12835	23 68298,29076	9,99961,25024,5759	11,37404,89040	34:48
	73847,67187	9749,00583	9740,27528	32100,3836	179,30482	
57	99910,07671,01245	23 56437,12252	23 58558,01548	9,99960,92924,1923	11,37225,58558	34:12
	74152,01537	9669,14367	9660,41308	32232,9155	178,57021	
56	99909,33518,99708	23 46767,97885	23 48897,60240	9,99960,60691,2768	11,37047,01537	33:36
	74456,35660	9590,25942	9581,52880	32365,4494	177,84162	
55	99908,59062,64048	23 37177,71943	23 39316,07360	9,99960,28325,8274	11,36869,17375	33: 0
	74760,69558	9512,33716	9503,60650	32497,9852	177,11898	
54	99907,84301,94490	23 27665,38227	23 29812,46710	9,99959,95827,8422	11,36692,05477	32:24
	75065,03227	9435,36132	9426,63065	32630,5231	176,40221	
53	99907,09236,91263	23 18230,02095	23 20385,83645	9,99959,63197,3191	11,36515,65256	31:48
	75369,36668	9359,31666	9350,58594	32763,0629	175,69123	
52	99906,33867,54595	23 08870,70429	23 11035,25051	9,99959,30434,2562	11,36339,96133	31:12
	75673,69878	9284,18819	9275,45743	32895,6047	174,98599	
51	99905,58193,84717	22 99586,51610	23 01759,79308	9,99958,97538,6515	11,36164,97534	30:36
	75978,02859	9209,96126	9201,23047	33028,1486	174,28640	
50	99904,82215,81858	22 90376,55484	22 92558,56261	9,99958,64510,5029	11,35990,68894	30: 0
	76282,35608	9136,62150	9127,89069	33160,6944	173,59241	
49	99904,05933,46250	22 81239,93334	22 83430,67192	9,99958,31349,8085	11,35817,09653	29:24
	76586,68125	9064,15485	9055,42399	33293,2423	172,90394	
48	99903,29346,78125	22 72175,77849	22 74375,24793	9,99957,98056,5662	11,35644,19259	28:48
	76891,00409	8992,54747	8983,81659	33425,7922	172,22093	
47	99902,52455,77716	22 63183,23102	22 65391,43134	9,99957,64630,7740	11,35471,97166	28:12
	77195,32457	8921,78585	8913,05494	33558,3442	171,54333	
46	99901,75260,45259	22 54261,44517	22 56478,37640	9,99957,31072,4298	11,35300,42833	27:36
	77499,64271	8851,85674	8843,12578	33690,8982	170,87104	
45	99900,97760,80988	22 45409,58843	22 47635,25062	9,99956,97381,5316	11,35129,55729	27: 0
	77803,95850	8782,74708	8774,01610	33823,4542	170,20404	
44	99900,19956,85138	22 36626,84135	22 38861,23452	9,99956,63558,0774	11,34959,35325	26:24
	78108,27190	8714,44417	8705,71315	33956,0123	169,54224	
43	99899,41848,57948	22 27912,39718	22 30155,52137	9,99956,29602,0651	11,34789,81101	25:48
	78412,58294	8646,93548	8638,20442	34088,5726	168,88558	
42	99898,63435,99654	22 19265,46170	22 21517,31695	9,99955,95513,4925	11,34620,92543	25:12
	78716,89157	8580,20874	8571,47765	34221,1348	168,23401	
41	99897,84719,10497	22 10685,25296	22 12945,83930	9,99955,61292,3577	11,34452,69142	24:36
	79021,19782	8514,25191	8505,52079	34353,6991	167,58748	
40	99897,05697,90715	22 02171,00105	22 04440,31851	9,99955,26938,6586	11,34285,10394	24: 0
	79325,50166	8449,05323	8440,32207	34486,2657	166,94591	
39	99896,26372,40549	21 93721,94782	21 95999,99644	9,99954,92452,3929	11,34118,15803	23:24
	79629,80308	8384,60108	8375,86989	34618,8342	166,30925	
38	99895,46742,60241	21 85337,34674	21 87624,12655	9,99954,57833,5587	11,33951,84878	22:48
	79934,10207	8320,88414	8312,15291	34751,4048	165,67746	
37	99894,66808,50034	21 77016,46260	21 79311,97364	9,99954,23082,1539	11,33786,17132	22:12
	80238,39863	8257,89125	8249,15999	34883,9777	165,05046	
36	99893,86570,10171	21 68758,57135	21 71062,81365	9,99953,88198,1762	11,33621,12086	21:36
	80542,69274	8195,61148	8186,88019	35016,5526	164,42822	
35	99893,06027,40897	21 60562,95987	21 62875,93346	9,99953,53181,6236	11,33456,69264	21: 0
	80846,98441	8134,03413	8125,30279	35149,1297	163,81067	
34	99892,25180,42456	21 52428,92574	21 54750,63067	9,99953,18032,4939	11,33292,88197	20:24
	81151,27361	8073,14864	8064,41728	35281,7089	163,19775	

GRAD. 87.

2. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	4658,34267,60803	4663,40526	1 00108,67769	8,66823,14328,5834	8,66870,31578	40:12
	17,43427,42373	17,49139	81633	162,23528,7425	162,58943	
68	4675,77695,03176	4680,89665	1 00109,49402	8,66985,37857,3259	8,67032,90521	40:48
	17,43413,18050	17,49167	81940	161,63017,7194	161,98564	
69	4693,21108,21226	4698,38832	1 00110,31342	8,67147,00875,0453	8,67194,89085	41:24
	17,43398,88417	17,49197	82246	161,02955,4317	161,38635	
70	4710,64507,09643	4715,88029	1 00111,13588	8,67308,03830,4770	8,67356,27720	42: 0
	17,43384,53471	17,49225	82552	160,43336,9026	160,79149	
71	4728,07891,63114	4733,37254	1 00111,96140	8,67468,47167,3796	8,67517,06869	42:36
	17,43370,13217	17,49254	82859	159,84157,2286	160,20102	
72	4745,51261,76331	4750,86508	1 00112,78999	8,67628,31324,6082	8,67677,26971	43:12
	17,43355,67651	17,49283	83165	159,25411,5786	159,61489	
73	4762,94617,43982	4768,35791	1 00113,62164	8,67787,56736,1868	8,67836,88460	43:48
	17,43341,16774	17,49312	83471	158,67095,1914	159,03305	
74	4780,37958,60756	4785,85103	1 00114,45635	8,67946,23831,3782	8,67995,91765	44:24
	17,43326,60588	17,49342	83778	158,09203,3757	158,45546	
75	4797,81285,21344	4803,34445	1 00115,29413	8,68104,33034,7539	8,68154,37311	45: 0
	17,43311,99090	17,49371	84084	157,51731,5084	157,88206	
76	4815,24597,20434	4820,83816	1 00116,13497	8,68261,84766,2623	8,68312,25517	45:36
	17,43297,32283	17,49400	84390	156,94675,0327	157,31283	
77	4832,67894,52717	4838,33216	1 00116,97887	8,68418,79441,2950	8,68469,56800	46:12
	17,43282,60164	17,49430	84697	156,38029,4582	156,74770	
78	4850,11177,12881	4855,82646	1 00117,82584	8,68575,17470,7532	8,68626,31570	46:48
	17,43267,82735	17,49459	85003	155,81790,3585	156,18663	
79	4867,54444,95616	4873,32105	1 00118,67587	8,68730,99261,1117	8,68782,50233	47:24
	17,43252,99997	17,49489	85310	155,25953,3706	155,62959	
80	4884,97697,95613	4890,81594	1 00119,52897	8,68886,25214,4823	8,68938,13192	48: 0
	17,43238,11948	17,49519	85616	154,70514,1941	155,07652	
81	4902,40936,07561	4908,31113	1 00120,38513	8,69040,95728,6764	8,69093,20844	48:36
	17,43223,18589	17,49549	85922	154,15468,5892	154,52739	
82	4919,84159,26150	4925,80662	1 00121,24435	8,69195,11197,2656	8,69247,73583	49:12
	17,43208,19919	17,49579	86229	153,60812,3764	153,98216	
83	4937,27367,46069	4943,30241	1 00122,10664	8,69348,72009,6420	8,69401,71799	49:48
	17,43193,15939	17,49610	86536	153,06541,4352	153,44077	
84	4954,70560,62008	4960,79851	1 00122,97200	8,69501,78551,0772	8,69555,15876	50:24
	17,43178,06650	17,49639	86842	152,52651,7029	152,90320	
85	4972,13738,68658	4978,29490	1 00123,84042	8,69654,31202,7801	8,69708,06196	51: 0
	17,43162,92050	17,49670	87148	151,99139,1737	152,36941	
86	4989,56901,60708	4995,79160	1 00124,71190	8,69806,30341,9538	8,69860,43137	51:36
	17,43147,72141	17,49701	87455	151,45999,8980	151,83933	
87	5007,00049,32849	5013,28861	1 00125,58645	8,69957,76341,8518	8,70012,27070	52:12
	17,43132,46921	17,49731	87762	150,93229,9810	151,31297	
88	5024,43181,79770	5030,78592	1 00126,46407	8,70108,69571,8328	8,70163,58367	52:48
	17,43117,16391	17,49762	88068	150,40825,5815	150,79024	
89	5041,86298,96161	5048,28354	1 00127,34475	8,70259,10397,4143	8,70314,37391	53:24
	17,43101,80552	17,49792	88375	149,88782,9120	150,27115	
90	5059,29400,76713	5065,78146	1 00128,22850	8,70408,99180,3263	8,70464,64506	54: 0
	17,43086,39403	17,49824	88681	149,37098,2371	149,75562	
91	5076,72487,16116	5083,27970	1 00129,11531	8,70558,36278,5634	8,70614,40068	54:36
	17,43070,92945	17,49855	88988	148,85767,8719	149,24365	
92	5094,15558,09061	5100,77825	1 00130,00519	8,70707,22046,4353	8,70763,64433	55:12
	17,43055,41176	17,49886	89294	148,34788,1830	148,73518	
93	5111,58613,50237	5118,27711	1 00130,89813	8,70855,56834,6183	8,70912,37951	55:48
	17,43039,84097	17,49917	89601	147,84155,5856	148,23018	
94	5129,01653,34334	5135,77628	1 00131,79414	8,71003,40990,2039	8,71060,60969	56:24
	17,43024,21710	17,49948	89908	147,33866,5440	147,72861	
95	5146,44677,56044	5153,27576	1 00132,69322	8,71150,74856,7479	8,71208,33830	57: 0
	17,43008,54013	17,49980	90214	146,83917,5705	147,23045	
96	5163,87686,10057	5170,77556	1 00133,59536	8,71297,58774,3184	8,71355,56875	57:36
	17,42992,81005	17,50012	90521	146,34305,2240	146,73565	
97	5181,30678,91062	5188,27568	1 00134,50057	8,71443,93079,5424	8,71502,30440	58:12
	17,42977,02690	17,50043	90828	145,85026,1101	146,24419	
98	5198,73655,93752	5205,77611	1 00135,40885	8,71589,78105,6525	8,71648,54859	58:48
	17,42961,19063	17,50075	91134	145,36076,8796	145,75603	
99	5216,16617,12815	5223,27686	1 00136,32019	8,71735,14182,5321	8,71794,30462	59:24
	17,42945,30129	17,50107	91441	144,87454,2284	145,27112	
100	5233,59562,42944	5240,77793	1 00137,23460	8,71880,01636,7605	8,71939,57574	60: 0
	17,42929,35884	17,50139	91748	144,39154,8957	144,78945	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	99891,44029,15095	21 44355,77710	21 46686,21339	9,99952,82750,7850	11,33129,68422	19:48
	81455,56033	8012,94473	8004,21332	35414,2902	162,58943	
32	99890,62573,59062	21 36342,83237	21 38682,00007	9,99952,47336,4948	11,32967,09479	19:12
	81759,84458	7953,41221	7944,68078	35546,8738	161,98564	
31	99889,80813,74604	21 28389,42016	21 30737,31929	9,99952,11789,6210	11,32805,10915	18:36
	82064,12634	7894,54119	7885,80971	35679,4595	161,38635	
30	99888,98749,61970	21 20494,87897	21 22851,50958	9,99951,76110,1615	11,32643,72280	18: 0
	82368,40559	7836,32186	7827,59035	35812,0474	160,79149	
29	99888,16381,21411	21 12658,55711	21 15023,91923	9,99951,40298,1141	11,32482,93131	17:24
	82672,68234	7778,74467	7770,01312	35944,6374	160,20102	
28	99887,33708,53177	21 04879,81244	21 07253,90611	9,99951,04353,4767	11,32322,73029	16:48
	82976,95657	7721,80019	7713,06860	36077,2297	159,61489	
27	99886,50731,57520	20 97158,01225	20 99540,83751	9,99950,68276,2470	11,32163,11540	16:12
	83281,22826	7665,47918	7656,74757	36209,8242	159,03305	
26	99885,67450,34694	20 89492,53307	20 91884,08994	9,99950,32066,4228	11,32004,08235	15:36
	83585,49743	7609,77259	7601,04094	36342,4208	158,45546	
25	99884,83864,84951	20 81882,76048	20 84283,04900	9,99949,95724,0020	11,31845,62689	15: 0
	83889,76405	7554,67151	7545,93981	36475,0198	157,88206	
24	99883,99975,08546	20 74328,08897	20 76737,10919	9,99949,59248,9822	11,31687,74483	14:24
	84194,02811	7500,16720	7491,43547	36607,6208	157,31283	
23	99883,15781,05735	20 66827,92177	20 69245,67372	9,99949,22641,3614	11,31530,43200	13:48
	84498,28961	7446,25104	7437,51928	36740,2242	156,74770	
22	99882,31282,76774	20 59381,67073	20 61808,15444	9,99948,85901,1372	11,31373,68430	13:12
	84802,54853	7392,91465	7384,18284	36872,8298	156,18663	
21	99881,46480,21921	20 51988,75608	20 54423,97160	9,99948,49028,3074	11,31217,49767	12:36
	85106,80487	7340,14971	7331,41787	37005,4377	155,62959	
20	99880,61373,41434	20 44648,60637	20 47092,55373	9,99948,12022,8697	11,31061,86808	12: 0
	85411,05862	7287,94810	7279,21622	37138,0478	155,07652	
19	99879,75962,35572	20 37360,65827	20 39813,33751	9,99947,74884,8219	11,30906,79156	11:24
	85715,30976	7236,30182	7227,56991	37270,6602	154,52739	
18	99878,90247,04596	20 30124,35645	20 32585,76760	9,99947,37614,1617	11,30752,26417	10:48
	86019,55830	7185,20303	7176,47108	37403,2748	153,98216	
17	99878,04227,48766	20 22939,15342	20 25409,29652	9,99947,00210,8869	11,30598,28201	10:12
	86323,80422	7134,64403	7125,91204	37535,8917	153,44077	
16	99877,17903,68344	20 15804,50939	20 18283,38448	9,99946,62674,9952	11,30444,84124	9:36
	86628,04749	7084,61721	7075,88518	37668,5110	152,90320	
15	99876,31275,63595	20 08719,89218	20 11207,49930	9,99946,25006,4842	11,30291,93804	9: 0
	86932,28815	7035,11516	7026,38310	37801,1326	152,36941	
14	99875,44343,34780	20 01684,77702	20 04181,11620	9,99945,87205,3516	11,30139,56863	8:24
	87236,52614	6986,13055	6977,39844	37933,7563	151,83933	
13	99874,57106,82166	19 94698,64647	19 97203,71776	9,99945,49271,5953	11,29987,72930	7:48
	87540,76149	6937,65620	6928,92406	38066,3825	151,31297	
12	99873,69566,06017	19 87760,99027	19 90274,79370	9,99945,11205,2128	11,29836,41633	7:12
	87844,99415	6889,68503	6880,95285	38199,0111	150,79024	
11	99872,81721,06602	19 80871,30524	19 83393,84085	9,99944,73006,2017	11,29685,62609	6:36
	88149,22416	6842,21013	6833,47791	38331,6418	150,27115	
10	99871,93571,84186	19 74029,09511	19 76560,36294	9,99944,34674,5599	11,29535,35494	6: 0
	88453,45147	6795,22466	6786,49240	38464,2750	149,75562	
9	99871,05118,39039	19 67233,87045	19 69773,87054	9,99943,96210,2849	11,29385,59932	5:24
	88757,67608	6748,72191	6739,98962	38596,9105	149,24365	
8	99870,16360,71431	19 60485,14854	19 63033,88092	9,99943,57613,3744	11,29236,35567	4:48
	89061,89800	6702,69530	6693,96297	38729,5483	148,73518	
7	99869,27298,81631	19 53782,45324	19 56339,91795	9,99943,18883,8261	11,29087,62049	4:12
	89366,11721	6657,13836	6648,40598	38862,1886	148,23018	
6	99868,37932,69910	19 47125,31488	19 49691,51197	9,99942,80021,6375	11,28939,39031	3:36
	89670,33368	6612,04469	6603,31228	38994,8312	147,72861	
5	99867,48262,36542	19 40513,27019	19 43088,19969	9,99942,41026,8063	11,28791,66170	3: 0
	89974,54743	6567,40807	6558,67562	39127,4762	147,23045	
4	99866,58287,81799	19 33945,86212	19 36529,52407	9,99942,01899,3301	11,28644,43125	2:24
	90278,75844	6523,22232	6514,48983	39260,1236	146,73565	
3	99865,68009,05955	19 27422,63980	19 30015,03424	9,99941,62639,2065	11,28497,69560	1:48
	90582,96670	6479,48139	6470,74886	39392,7733	146,24419	
2	99864,77426,09285	19 20943,15841	19 23544,28538	9,99941,23246,4332	11,28351,45141	1:12
	90887,17219	6436,17934	6427,44676	39525,4256	145,75603	
1	99863,86538,92066	19 14506,97907	19 17116,83862	9,99940,83721,0076	11,28205,69538	0:36
	91191,37492	6393,31030	6384,57769	39658,0801	145,27112	
0	99862,95347,54574	19 08113,66877	19 10732,26093	9,99940,44062,9275	11,28060,42426	0: 0
	91495,57488	6350,86853	6342,13588	39790,7371	144,78945	

GRAD. 87.

3. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
0	5233,59562,42944	5240,77793	1 00137,23460	8,71880,01636,7605	8,71939,57574	0: 0
	17,42929,35884	17,50139	91748	144,39154,8957	144,78945	
1	5251,02491,78828	5258,27932	1 00138,15208	8,72024,40791,6562	8,72084,36519	0:36
	17,42913,36331	17,50171	92054	143,91175,6647	144,31100	
2	5268,45405,15159	5275,78103	1 00139,07262	8,72168,31967,3209	8,72228,67619	1:12
	17,42897,31467	17,50203	92361	143,43513,3608	143,83569	
3	5285,88302,46626	5293,28306	1 00139,99623	8,72311,75480,6817	8,72372,51188	1:48
	17,42881,21296	17,50236	92668	142,96164,8512	143,36354	
4	5303,31183,67922	5310,78542	1 00140,92291	8,72454,71645,5329	8,72515,87542	2:24
	17,42865,05814	17,50268	92975	142,49127,0443	142,89448	
5	5320,74048,73736	5328,28810	1 00141,85266	8,72597,20772,5772	8,72658,76990	3: 0
	17,42848,85024	17,50301	93281	142,02396,8891	142,42851	
6	5338,16897,58760	5345,79111	1 00142,78547	8,72739,23169,4663	8,72801,19841	3:36
	17,42832,58925	17,50333	93589	141,55971,3741	141,96558	
7	5355,59730,17685	5363,29444	1 00143,72136	8,72880,79140,8404	8,72943,16399	4:12
	17,42816,27517	17,50366	93895	141,09847,5274	141,50567	
8	5373,02546,45202	5380,79810	1 00144,66031	8,73021,88988,3678	8,73084,66966	4:48
	17,42799,90800	17,50399	94202	140,64022,4153	141,04874	
9	5390,45346,36002	5398,30209	1 00145,60233	8,73162,53010,7831	8,73225,71840	5:24
	17,42783,48773	17,50432	94508	140,18493,1423	140,59478	
10	5407,88129,84775	5415,80641	1 00146,54741	8,73302,71503,9254	8,73366,31318	6: 0
	17,42767,01439	17,50465	94816	139,73256,8498	140,14375	
11	5425,30896,86214	5433,31106	1 00147,49557	8,73442,44760,7752	8,73506,45693	6:36
	17,42750,48795	17,50498	95123	139,28310,7163	139,69560	
12	5442,73647,35009	5450,81604	1 00148,44680	8,73581,73071,4915	8,73646,15253	7:12
	17,42733,90843	17,50532	95429	138,83651,9563	139,25035	
13	5460,16381,25852	5468,32136	1 00149,40109	8,73720,56723,4478	8,73785,40288	7:48
	17,42717,27582	17,50565	95736	138,39277,8196	138,80794	
14	5477,59098,53434	5485,82701	1 00150,35845	8,73858,96001,2674	8,73924,21082	8:24
	17,42700,59012	17,50598	96043	137,95185,5915	138,36833	
15	5495,01799,12446	5503,33299	1 00151,31888	8,73996,91186,8589	8,74062,57915	9: 0
	17,42683,85134	17,50632	96350	137,51372,5911	137,93154	
16	5512,44482,97580	5520,83931	1 00152,28238	8,74134,42559,4500	8,74200,51069	9:36
	17,42667,05947	17,50666	96657	137,07836,1718	137,49750	
17	5529,87150,03527	5538,34597	1 00153,24895	8,74271,50395,6218	8,74338,00819	10:12
	17,42650,21452	17,50700	96964	136,64573,7202	137,06620	
18	5547,29800,24979	5555,85297	1 00154,21859	8,74408,14969,3420	8,74475,07439	10:48
	17,42633,31648	17,50733	97271	136,21582,6558	136,63761	
19	5564,72433,56627	5573,36030	1 00155,19130	8,74544,36551,9978	8,74611,71200	11:24
	17,42616,36537	17,50768	97578	135,78860,4304	136,21172	
20	5582,15049,93164	5590,86798	1 00156,16708	8,74680,15412,4282	8,74747,92372	12: 0
	17,42599,36116	17,50802	97885	135,36404,5273	135,78849	
21	5599,57649,29280	5608,37600	1 00157,14593	8,74815,51816,9555	8,74883,71221	12:36
	17,42582,30388	17,50836	98192	134,94212,4618	135,36790	
22	5617,00231,59668	5625,88436	1 00158,12785	8,74950,46029,4173	8,75019,08011	13:12
	17,42565,19351	17,50871	98499	134,52281,7790	134,94991	
23	5634,42796,79019	5643,39307	1 00159,11284	8,75084,98311,1963	8,75154,03002	13:48
	17,42548,03006	17,50905	98806	134,10610,0555	134,53453	
24	5651,85344,82025	5660,90212	1 00160,10090	8,75219,08921,2518	8,75288,56455	14:24
	17,42530,81353	17,50939	99113	133,69194,8970	134,12170	
25	5669,27875,63378	5678,41151	1 00161,09203	8,75352,78116,1488	8,75422,68625	15: 0
	17,42513,54391	17,50975	99421	133,28033,9387	133,71142	
26	5686,70389,17769	5695,92126	1 00162,08624	8,75486,06150,0875	8,75556,39767	15:36
	17,42496,22123	17,51009	99727	132,87124,8450	133,30366	
27	5704,12885,39892	5713,43135	1 00163,08351	8,75618,93274,9325	8,75689,70133	16:12
	17,42478,84546	17,51044	1,00034	132,46465,3089	132,89838	
28	5721,55364,24438	5730,94179	1 00164,08385	8,75751,39740,2414	8,75822,59971	16:48
	17,42461,41661	17,51079	1,00342	132,06053,0511	132,49560	
29	5738,97825,66099	5748,45258	1 00165,08727	8,75883,45793,2925	8,75955,09531	17:24
	17,42443,93468	17,51114	1,00648	131,65885,8203	132,09524	
30	5756,40269,59567	5765,96372	1 00166,09375	8,76015,11679,1128	8,76087,19055	18: 0
	17,42426,39968	17,51150	1,00956	131,25961,3923	131,69733	
31	5773,82695,99535	5783,47522	1 00167,10331	8,76146,37640,5051	8,76218,88788	18:36
	17,42408,81159	17,51184	1,01263	130,86277,5699	131,30182	
32	5791,25104,80694	5800,98706	1 00168,11594	8,76277,23918,0750	8,76350,18970	19:12
	17,42391,17044	17,51221	1,01570	130,46832,1819	130,90869	
33	5808,67495,97738	5818,49927	1 00169,13164	8,76407,70750,2569	8,76481,09839	19:48
	17,42373,47620	17,51256	1,01877	130,07623,0839	130,51793	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
100	99862,95347,54574	19 08113,66877	19 10732,26093	9,99940,44062,9275	11,28060,42426	60: 0
	91495,57488	6350,86853	6342,13588	39790,7371	144,78945	
99	99862,03851,97086	19 01762,80024	19 04390,12505	9,99940,04272,1904	11,27915,63481	59:24
	91799,77203	6308,84837	6300,11568	39923,3966	144,31100	
98	99861,12052,19883	18 95453,95187	18 98090,00937	9,99939,64348,7938	11,27771,32381	58:48
	92103,96641	6267,24425	6258,51152	40056,0585	143,83569	
97	99860,19948,23242	18 89186,70762	18 91831,49785	9,99939,24292,7353	11,27627,48812	58:12
	92408,15797	6226,05070	6217,31793	40188,7228	143,36354	
96	99859,27540,07445	18 82960,65692	18 85614,17992	9,99938,84104,0125	11,27484,12458	57:36
	92712,34671	6185,26233	6176,52952	40321,3896	142,89448	
95	99858,34827,72774	18 76775,39459	18 79437,65040	9,99938,43782,6229	11,27341,23010	57: 0
	93016,53264	6144,87384	6136,14099	40454,0589	142,42851	
94	99857,41811,19510	18 70630,52075	18 73301,50941	9,99938,03328,5640	11,27198,80159	56:24
	93320,71573	6104,88004	6096,14714	40586,7306	141,96558	
93	99856,48490,47937	18 64525,64071	18 67205,36227	9,99937,62741,8334	11,27056,83601	55:48
	93624,89598	6065,27578	6056,54285	40719,4048	141,50567	
92	99855,54865,58339	18 58460,36493	18 61148,81942	9,99937,22022,4286	11,26915,33034	55:12
	93929,07337	6026,05603	6017,32306	40852,0815	141,04874	
91	99854,60936,51002	18 52434,30890	18 55131,49636	9,99936,81170,3471	11,26774,28160	54:36
	94233,24790	5987,21583	5978,48281	40984,7607	140,59478	
90	99853,66703,26212	18 46447,09307	18 49153,01355	9,99936,40185,5864	11,26633,68682	54: 0
	94537,41957	5948,75029	5940,01723	41117,4424	140,14375	
89	99852,72165,84255	18 40498,34278	18 43212,99632	9,99935,99068,1440	11,26493,54307	53:24
	94841,58835	5910,65461	5901,92152	41250,1266	139,69560	
88	99851,77324,25420	18 34587,68817	18 37311,07480	9,99935,57818,0174	11,26353,84747	52:48
	95145,75425	5872,92407	5864,19093	41382,8133	139,25035	
87	99850,82178,49995	18 28714,76410	18 31446,88387	9,99935,16435,2041	11,26214,59712	52:12
	95449,91724	5835,55401	5826,82082	41515,5026	138,80794	
86	99849,86728,58271	18 22879,21009	18 25620,06305	9,99934,74919,7015	11,26075,78918	51:36
	95754,07733	5798,53985	5789,80664	41648,1943	138,36833	
85	99848,90974,50538	18 17080,67024	18 19830,25641	9,99934,33271,5072	11,25937,42085	51: 0
	96058,23450	5761,87710	5753,14383	41780,8887	137,93154	
84	99847,94916,27088	18 11318,79314	18 14077,11258	9,99933,91490,6185	11,25799,48931	50:24
	96362,38875	5725,56132	5716,82801	41913,5856	137,49750	
83	99846,98553,88213	18 05593,23182	18 08360,28457	9,99933,49577,0329	11,25661,99181	49:48
	96666,54006	5689,58813	5680,85478	42046,2851	137,06620	
82	99846,01887,34207	17 99903,64369	18 02679,42979	9,99933,07530,7478	11,25524,92561	49:12
	96970,68842	5653,95325	5645,21986	42178,9871	136,63761	
81	99845,04916,65365	17 94249,69044	17 97034,20993	9,99932,65351,7607	11,25388,28800	48:36
	97274,83384	5618,65245	5609,91902	42311,6916	136,21172	
80	99844,07641,81981	17 88631,03799	17 91424,29091	9,99932,23040,0691	11,25252,07628	48: 0
	97578,97628	5583,68156	5574,94808	42444,3989	135,78849	
79	99843,10062,84353	17 83047,35643	17 85849,34283	9,99931,80595,6702	11,25116,28779	47:24
	97883,11577	5549,03649	5540,30298	42577,1086	135,36790	
78	99842,12179,72776	17 77498,31994	17 80309,03985	9,99931,38018,5616	11,24980,91989	46:48
	98187,25225	5514,71320	5505,97963	42709,8211	134,94991	
77	99841,13992,47551	17 71983,60674	17 74803,06022	9,99930,95308,7405	11,24845,96998	46:12
	98491,38576	5480,70772	5471,97412	42842,5360	134,53453	
76	99840,15501,08975	17 66502,89902	17 69331,08610	9,99930,52466,2045	11,24711,43545	45:36
	98795,51626	5447,01613	5438,28248	42975,2536	134,12170	
75	99839,16705,57349	17 61055,88289	17 63892,80362	9,99930,09490,9509	11,24577,31375	45: 0
	99099,64376	5413,63460	5404,90091	43107,9739	133,71142	
74	99838,17605,92973	17 55642,24829	17 58487,90271	9,99929,66382,9770	11,24443,60233	44:24
	99403,76823	5380,55931	5371,82557	43240,6967	133,30366	
73	99837,18202,16150	17 50261,68898	17 53116,07714	9,99929,23142,2803	11,24310,29867	43:48
	99707,88968	5347,78654	5339,05276	43373,4223	132,89838	
72	99836,18494,27182	17 44913,90244	17 47777,02438	9,99928,79768,8580	11,24177,40029	43:12
	1,00012,00809	5315,31261	5306,57879	43506,1504	132,49560	
71	99835,18482,26373	17 39598,58983	17 42470,44559	9,99928,36262,7076	11,24044,90469	42:36
	1,00316,12345	5283,13390	5274,40004	43638,8812	132,09524	
70	99834,18166,14028	17 34315,45593	17 37196,04555	9,99927,92623,8264	11,23912,80945	42: 0
	1,00620,23576	5251,24685	5242,51293	43771,6148	131,69733	
69	99833,17545,90452	17 29064,20908	17 31953,53262	9,99927,48852,2116	11,23781,11212	41:24
	1,00924,34500	5219,64791	5210,91397	43904,3509	131,30182	
68	99832,16621,55952	17 23844,56117	17 26742,61865	9,99927,04947,8607	11,23649,81030	40:48
	1,01228,45117	5188,33368	5179,59967	44037,0897	130,90869	
67	99831,15393,10835	17 18656,22749	17 21563,01898	9,99926,60910,7710	11,23518,90161	40:12
	1,01532,55425	5157,30068	5148,56665	44169,8313	130,51793	

GRAD. 86.

3. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	5808,67495,97738	5818,49927	1 00169,13164	8,76407,70750,2569	8,76481,09839	19:48
	17,42373,47620	17,51256	1,01877	130,07623,0839	130,51793	
34	5826,09869,45358	5836,01183	1 00170,15041	8,76537,78373,3408	8,76611,61632	20:24
	17,42355,72888	17,51291	1,02185	129,68648,1564	130,12951	
35	5843,52225,18246	5853,52474	1 00171,17226	8,76667,47021,4972	8,76741,74583	21: 0
	17,42337,92850	17,51327	1,02492	129,29905,3055	129,74341	
36	5860,94563,11096	5871,03801	1 00172,19718	8,76796,76926,8027	8,76871,48924	21:36
	17,42320,07504	17,51364	1,02799	128,91392,4623	129,35960	
37	5878,36883,18600	5888,55165	1 00173,22517	8,76925,68319,2650	8,77000,84884	22:12
	17,42302,16851	17,51399	1,03106	128,53107,5820	128,97809	
38	5895,79185,35451	5906,06564	1 00174,25623	8,77054,21426,8470	8,77129,82693	22:48
	17,42284,20889	17,51435	1,03414	128,15048,6445	128,59882	
39	5913,21469,56340	5923,57999	1 00175,29037	8,77182,36475,4915	8,77258,42575	23:24
	17,42266,19622	17,51472	1,03720	127,77213,6533	128,22180	
40	5930,63735,75962	5941,09471	1 00176,32757	8,77310,13689,1448	8,77386,64755	24: 0
	17,42248,13045	17,51508	1,04029	127,39600,6349	127,84700	
41	5948,05983,89007	5958,60979	1 00177,36786	8,77437,53289,7797	8,77514,49455	24:36
	17,42230,01164	17,51544	1,04335	127,02207,6398	127,47439	
42	5965,48213,90171	5976,12523	1 00178,41121	8,77564,55497,4195	8,77641,96894	25:12
	17,42211,83973	17,51581	1,04643	126,65032,7404	127,10398	
43	5982,90425,74144	5993,64104	1 00179,45764	8,77691,20530,1599	8,77769,07292	25:48
	17,42193,61477	17,51617	1,04950	126,28074,0321	126,73571	
44	6000,32619,35621	6011,15721	1 00180,50714	8,77817,48604,1920	8,77895,80863	26:24
	17,42175,33672	17,51654	1,05258	125,91329,6323	126,36960	
45	6017,74794,69293	6028,67375	1 00181,55972	8,77943,39933,8243	8,78022,17823	27: 0
	17,42157,00562	17,51691	1,05565	125,54797,6800	126,00560	
46	6035,16951,69855	6046,19066	1 00182,61537	8,78068,94731,5043	8,78148,18383	27:36
	17,42138,62144	17,51728	1,05872	125,18476,3359	125,64372	
47	6052,59090,31999	6063,70794	1 00183,67409	8,78194,13207,8402	8,78273,82755	28:12
	17,42120,18420	17,51766	1,06180	124,82363,7817	125,28393	
48	6070,01210,50419	6081,22560	1 00184,73589	8,78318,95571,6219	8,78399,11148	28:48
	17,42101,69388	17,51802	1,06487	124,46458,2201	124,92619	
49	6087,43312,19807	6098,74362	1 00185,80076	8,78443,42029,8420	8,78524,03767	29:24
	17,42083,15050	17,51840	1,06795	124,10757,8746	124,57052	
50	6104,85395,34857	6116,26202	1 00186,86871	8,78567,52787,7166	8,78648,60819	30: 0
	17,42064,55405	17,51877	1,07102	123,75260,9882	124,21688	
51	6122,27459,90262	6133,78079	1 00187,93973	8,78691,28048,7048	8,78772,82507	30:36
	17,42045,90453	17,51914	1,07409	123,39965,8248	123,86525	
52	6139,69505,80715	6151,29993	1 00189,01382	8,78814,68014,5296	8,78896,69032	31:12
	17,42027,20196	17,51952	1,07717	123,04870,6674	123,51564	
53	6157,11533,00911	6168,81945	1 00190,09099	8,78937,72885,1970	8,79020,20596	31:48
	17,42008,44631	17,51990	1,08025	122,69973,8188	123,16799	
54	6174,53541,45542	6186,33935	1 00191,17124	8,79060,42859,0158	8,79143,37395	32:24
	17,41989,63760	17,52028	1,08332	122,35273,6007	122,82231	
55	6191,95531,09302	6203,85963	1 00192,25456	8,79182,78132,6165	8,79266,19626	33: 0
	17,41970,77582	17,52065	1,08640	122,00768,3536	122,47859	
56	6209,37501,86884	6221,38028	1 00193,34096	8,79304,78900,9701	8,79388,67485	33:36
	17,41951,86099	17,52104	1,08947	121,66456,4370	122,13681	
57	6226,79453,72983	6238,90132	1 00194,43043	8,79426,45357,4071	8,79510,81166	34:12
	17,41932,89308	17,52142	1,09255	121,32336,2285	121,79692	
58	6244,21386,62291	6256,42274	1 00195,52298	8,79547,77693,6356	8,79632,60858	34:48
	17,41913,87213	17,52180	1,09563	120,98406,1238	121,45896	
59	6261,63300,49504	6273,94454	1 00196,61861	8,79668,76099,7594	8,79754,06754	35:24
	17,41894,79809	17,52219	1,09870	120,64664,5366	121,12286	
60	6279,05195,29313	6291,46673	1 00197,71731	8,79789,40764,2960	8,79875,19040	36: 0
	17,41875,67102	17,52257	1,10177	120,31109,8978	120,78865	
61	6296,47070,96415	6308,98930	1 00198,81908	8,79909,71874,1938	8,79995,97905	36:36
	17,41856,49086	17,52295	1,10486	119,97740,6562	120,45628	
62	6313,88927,45501	6326,51225	1 00199,92394	8,80029,69614,8500	8,80116,43533	37:12
	17,41837,25766	17,52334	1,10793	119,64555,2775	120,12576	
63	6331,30764,71267	6344,03559	1 00201,03187	8,80149,34170,1275	8,80236,56109	37:48
	17,41817,97139	17,52373	1,11101	119,31552,2442	119,79706	
64	6348,72582,68406	6361,55932	1 00202,14288	8,80268,65722,3717	8,80356,35815	38:24
	17,41798,63207	17,52412	1,11408	118,98730,0554	119,47016	
65	6366,14381,31613	6379,08344	1 00203,25696	8,80387,64452,4271	8,80475,82831	39: 0
	17,41779,23968	17,52451	1,11716	118,66087,2269	119,14506	
66	6383,56160,55581	6396,60795	1 00204,37412	8,80506,30539,6540	8,80594,97337	39:36
	17,41759,79425	17,52490	1,12024	118,33622,2904	118,82175	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	99831,15393,10835	17 18656,22749	17 21563,01898	9,99926,60910,7710	11,23518,90161	40:12
	1,01532,55425	5157,30068	5148,56665	44169,8313	130,51793	
66	99830,13860,55410	17 13498,92681	17 16414,45233	9,99926,16740,9397	11,23388,38368	39:36
	1,01836,65424	5126,54562	5117,81153	44302,5756	130,12951	
65	99829,12023,89986	17 08372,38119	17 11296,64080	9,99925,72438,3641	11,23258,25417	39: 0
	1,02140,75114	5096,06514	5087,33101	44435,3225	129,74341	
64	99828,09883,14872	17 03276,31605	17 06209,30979	9,99925,28003,0416	11,23128,51076	38:24
	1,02444,84491	5065,85600	5057,12182	44568,0722	129,35960	
63	99827,07438,30381	16 98210,46005	17 01152,18797	9,99924,83434,9694	11,22999,15116	37:48
	1,02748,93557	5035,91499	5027,18078	44700,8245	128,97809	
62	99826,04689,36824	16 93174,54506	16 96125,00719	9,99924,38734,1449	11,22870,17307	37:12
	1,03053,02310	5006,23896	4997,50469	44833,5797	128,59882	
61	99825,01636,34514	16 88168,30610	16 91127,50250	9,99923,93900,5652	11,22741,57425	36:36
	1,03357,10749	4976,82476	4968,09044	44966,3376	128,22180	
60	99823,98279,23765	16 83191,48134	16 86159,41206	9,99923,48934,2276	11,22613,35245	36: 0
	1,03661,18872	4947,66934	4938,93499	45099,0982	127,84700	
59	99822,94618,04893	16 78243,81200	16 81220,47707	9,99923,03835,1294	11,22485,50545	35:24
	1,03965,26681	4918,76967	4910,03527	45231,8615	127,47439	
58	99821,90652,78212	16 73325,04233	16 76310,44180	9,99922,58603,2679	11,22358,03106	34:48
	1,04269,34173	4890,12277	4881,38833	45364,6277	127,10398	
57	99820,86383,44039	16 68434,91956	16 71429,05347	9,99922,13238,6402	11,22230,92708	34:12
	1,04573,41346	4861,72570	4852,99120	45497,3966	126,73571	
56	99819,81810,02693	16 63573,19386	16 66576,06227	9,99921,67741,2436	11,22104,19137	33:36
	1,04877,48202	4833,57556	4824,84102	45630,1683	126,36960	
55	99818,76932,54491	16 58739,61830	16 61751,22125	9,99921,22111,0753	11,21977,82177	33: 0
	1,05181,54737	4805,66948	4796,93490	45762,9428	126,00560	
54	99817,71750,99754	16 53933,94882	16 56954,28635	9,99920,76348,1325	11,21851,81617	32:24
	1,05485,60953	4778,00469	4769,27006	45895,7200	125,64372	
53	99816,66265,38801	16 49155,94413	16 52185,01629	9,99920,30452,4125	11,21726,17245	31:48
	1,05789,66847	4750,57838	4741,84370	46028,5002	125,28393	
52	99815,60475,71954	16 44405,36575	16 47443,17259	9,99919,84423,9123	11,21600,88852	31:12
	1,06093,72419	4723,38782	4714,65309	46161,2831	124,92619	
51	99814,54381,99535	16 39681,97793	16 42728,51950	9,99919,38262,6292	11,21475,96233	30:36
	1,06397,77668	4696,43032	4687,69556	46294,0688	124,57052	
50	99813,47984,21867	16 34985,54761	16 38040,82394	9,99918,91968,5604	11,21351,39181	30: 0
	1,06701,82592	4669,70324	4660,96842	46426,8573	124,21688	
49	99812,41282,39275	16 30315,84437	16 33379,85552	9,99918,45541,7031	11,21227,17493	29:24
	1,07005,87192	4643,20394	4634,46908	46559,6487	123,86525	
48	99811,34276,52083	16 25672,64043	16 28745,38644	9,99917,98982,0544	11,21103,30968	28:48
	1,07309,91466	4616,92984	4608,19493	46692,4430	123,51564	
47	99810,26966,60617	16 21055,71059	16 24137,19151	9,99917,52289,6114	11,20979,79404	28:12
	1,07613,95412	4590,87841	4582,14346	46825,2401	123,16799	
46	99809,19352,65205	16 16464,83218	16 19555,04805	9,99917,05464,3713	11,20856,62605	27:36
	1,07917,99032	4565,04714	4556,31213	46958,0401	122,82231	
45	99808,11434,66173	16 11899,78504	16 14998,73592	9,99916,58506,3312	11,20733,80374	27: 0
	1,08222,02321	4539,43354	4530,69849	47090,8429	122,47859	
44	99807,03212,63852	16 07360,35150	16 10468,03743	9,99916,11415,4883	11,20611,32515	26:24
	1,08526,05282	4514,03518	4505,30009	47223,6486	122,13681	
43	99805,94686,58570	16 02846,31632	16 05962,73734	9,99915,64191,8397	11,20489,18834	25:48
	1,08830,07912	4488,84966	4480,11451	47356,4572	121,79692	
42	99804,85856,50658	15 98357,46666	16 01482,62283	9,99915,16835,3825	11,20367,39142	25:12
	1,09134,10210	4463,87460	4455,13941	47489,2687	121,45896	
41	99803,76722,40448	15 93893,59206	15 97027,48342	9,99914,69346,1138	11,20245,93246	24:36
	1,09438,12176	4439,10767	4430,37243	47622,0831	121,12286	
40	99802,67284,28272	15 89454,48439	15 92597,11099	9,99914,21724,0307	11,20124,80960	24: 0
	1,09742,13809	4414,54656	4405,81127	47754,9004	120,78865	
39	99801,57542,14463	15 85039,93783	15 88191,29972	9,99913,73969,1303	11,20004,02095	23:24
	1,10046,15108	4390,18899	4381,45365	47887,7207	120,45628	
38	99800,47495,99355	15 80649,74884	15 83809,84607	9,99913,26081,4096	11,19883,56467	22:48
	1,10350,16070	4366,03273	4357,29735	48020,5438	120,12576	
37	99799,37145,83285	15 76283,71611	15 79452,54872	9,99912,78060,8658	11,19763,43891	22:12
	1,10654,16697	4342,07556	4333,34012	48153,3700	119,79706	
36	99798,26491,66588	15 71941,64055	15 75119,20860	9,99912,29907,4958	11,19643,64185	21:36
	1,10958,16987	4318,31529	4309,57981	48286,1989	119,47016	
35	99797,15533,49601	15 67623,32526	15 70809,62879	9,99911,81621,2969	11,19524,17169	21: 0
	1,11262,16939	4294,74978	4286,01425	48419,0310	119,14506	
34	99796,04271,32662	15 63328,57548	15 66523,61454	9,99911,33202,2659	11,19405,02663	20:24
	1,11566,16552	4271,37690	4262,64132	48551,8660	118,82175	

GRAD. 86.

3. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	6400,97920,35006	6414,13285	1 00205,49436	8,80624,64161,9444	8,80713,79512	40:12
	17,41740,29574	17,52530	1,12332	118,01333,7939	118,50018	
68	6418,39660,64580	6431,65815	1 00206,61768	8,80742,65495,7383	8,80832,29530	40:48
	17,41720,74420	17,52569	1,12639	117,69220,3006	118,18038	
69	6435,81381,39000	6449,18384	1 00207,74407	8,80860,34716,0389	8,80950,47568	41:24
	17,41701,13958	17,52608	1,12947	117,37280,3901	117,86231	
70	6453,23082,52958	6466,70992	1 00208,87354	8,80977,71996,4290	8,81068,33799	42: 0
	17,41681,48192	17,52647	1,13256	117,05512,6566	117,54596	
71	6470,64764,01150	6484,23639	1 00210,00610	8,81094,77509,0856	8,81185,88395	42:36
	17,41661,77119	17,52688	1,13562	116,73915,7097	117,23131	
72	6488,06425,78269	6501,76327	1 00211,14172	8,81211,51424,7953	8,81303,11526	43:12
	17,41642,00743	17,52727	1,13871	116,42488,1740	116,91837	
73	6505,48067,79012	6519,29054	1 00212,28043	8,81327,93912,9693	8,81420,03363	43:48
	17,41622,19059	17,52767	1,14179	116,11228,6887	116,60711	
74	6522,89689,98071	6536,81821	1 00213,42222	8,81444,05141,6580	8,81536,64074	44:24
	17,41602,32072	17,52807	1,14486	115,80135,9076	116,29751	
75	6540,31292,30143	6554,34628	1 00214,56708	8,81559,85277,5656	8,81652,93825	45: 0
	17,41582,39778	17,52847	1,14794	115,49208,4991	115,98956	
76	6557,72874,69921	6571,87475	1 00215,71502	8,81675,34486,0647	8,81768,92781	45:36
	17,41562,42180	17,52888	1,15103	115,18445,1450	115,68325	
77	6575,14437,12101	6589,40363	1 00216,86605	8,81790,52931,2097	8,81884,61106	46:12
	17,41542,39277	17,52927	1,15410	114,87844,5419	115,37858	
78	6592,55979,51378	6606,93290	1 00218,02015	8,81905,40775,7516	8,81999,98964	46:48
	17,41522,31068	17,52968	1,15718	114,57405,3998	115,07551	
79	6609,97501,82446	6624,46258	1 00219,17733	8,82019,98181,1514	8,82115,06515	47:24
	17,41502,17554	17,53009	1,16026	114,27126,4421	114,77406	
80	6627,39004,00000	6641,99267	1 00220,33759	8,82134,25307,5935	8,82229,83921	48: 0
	17,41481,98736	17,53049	1,16334	113,97006,4062	114,47418	
81	6644,80485,98736	6659,52316	1 00221,50093	8,82248,22313,9997	8,82344,31339	48:36
	17,41461,74613	17,53090	1,16642	113,67044,0421	114,17589	
82	6662,21947,73349	6677,05406	1 00222,66735	8,82361,89358,0418	8,82458,48928	49:12
	17,41441,45184	17,53131	1,16950	113,37238,1132	113,87916	
83	6679,63389,18533	6694,58537	1 00223,83685	8,82475,26596,1550	8,82572,36844	49:48
	17,41421,10452	17,53172	1,17258	113,07587,3958	113,58398	
84	6697,04810,28985	6712,11709	1 00225,00943	8,82588,34183,5508	8,82685,95242	50:24
	17,41400,70414	17,53213	1,17566	112,78090,6789	113,29034	
85	6714,46210,99399	6729,64922	1 00226,18509	8,82701,12274,2297	8,82799,24276	51: 0
	17,41380,25072	17,53254	1,17875	112,48746,7639	112,99823	
86	6731,87591,24471	6747,18176	1 00227,36384	8,82813,61020,9936	8,82912,24099	51:36
	17,41359,74426	17,53296	1,18182	112,19554,4651	112,70763	
87	6749,28950,98897	6764,71472	1 00228,54566	8,82925,80575,4587	8,83024,94862	52:12
	17,41339,18474	17,53337	1,18490	111,90512,6083	112,41855	
88	6766,70290,17371	6782,24809	1 00229,73056	8,83037,71088,0670	8,83137,36717	52:48
	17,41318,57218	17,53378	1,18799	111,61620,0320	112,13095	
89	6784,11608,74589	6799,78187	1 00230,91855	8,83149,32708,0990	8,83249,49812	53:24
	17,41297,90659	17,53420	1,19107	111,32875,5864	111,84484	
90	6801,52906,65248	6817,31607	1 00232,10962	8,83260,65583,6854	8,83361,34296	54: 0
	17,41277,18795	17,53462	1,19415	111,04278,1333	111,56019	
91	6818,94183,84043	6834,85069	1 00233,30377	8,83371,69861,8187	8,83472,90315	54:36
	17,41256,41626	17,53503	1,19723	110,75826,5465	111,27700	
92	6836,35440,25669	6852,38572	1 00234,50100	8,83482,45688,3652	8,83584,18015	55:12
	17,41235,59153	17,53546	1,20031	110,47519,7111	110,99526	
93	6853,76675,84822	6869,92118	1 00235,70131	8,83592,93208,0763	8,83695,17541	55:48
	17,41214,71377	17,53587	1,20339	110,19356,5235	110,71496	
94	6871,17890,56199	6887,45705	1 00236,90470	8,83703,12564,5998	8,83805,89037	56:24
	17,41193,78296	17,53630	1,20648	109,91335,8913	110,43609	
95	6888,59084,34495	6904,99335	1 00238,11118	8,83813,03900,4911	8,83916,32646	57: 0
	17,41172,79911	17,53672	1,20956	109,63456,7331	110,15862	
96	6906,00257,14406	6922,53007	1 00239,32074	8,83922,67357,2242	8,84026,48508	57:36
	17,41151,76222	17,53714	1,21264	109,35717,9785	109,88256	
97	6923,41408,90628	6940,06721	1 00240,53338	8,84032,03075,2027	8,84136,36764	58:12
	17,41130,67230	17,53757	1,21573	109,08118,5680	109,60790	
98	6940,82539,57858	6957,60478	1 00241,74911	8,84141,11193,7707	8,84245,97554	58:48
	17,41109,52934	17,53799	1,21881	108,80657,4524	109,33462	
99	6958,23649,10792	6975,14277	1 00242,96792	8,84249,91851,2231	8,84355,31016	59:24
	17,41088,33333	17,53842	1,22189	108,53333,5932	109,06270	
100	6975,64737,44125	6992,68119	1 00244,18981	8,84358,45184,8163	8,84464,37286	60: 0
	17,41067,08430	17,53885	1,22497	108,26145,9624	108,79216	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	99794,92705,16110	15 59057,19858	15 62260,97322	9,99910,84650,3999	11,19286,20488	19:48
	1,11870,15826	4248,19457	4239,45895	48684,7039	118,50018	
32	99793,80835,00284	15 54809,00401	15 58021,51427	9,99910,35965,6960	11,19167,70470	19:12
	1,12174,14757	4225,20072	4216,46503	48817,5448	118,18038	
31	99792,68660,85527	15 50583,80329	15 53805,04924	9,99909,87148,1512	11,19049,52432	18:36
	1,12478,13348	4202,39328	4193,65756	48950,3887	117,86231	
30	99791,56182,72179	15 46381,41001	15 49611,39168	9,99909,38197,7625	11,18931,66201	18: 0
	1,12782,11596	4179,77029	4171,03452	49083,2356	117,54596	
29	99790,43400,60583	15 42201,63972	15 45440,35716	9,99908,89114,5269	11,18814,11605	17:24
	1,13086,09501	4157,32974	4148,59391	49216,0855	117,23131	
28	99789,30314,51082	15 38044,30998	15 41291,76325	9,99908,39898,4414	11,18696,88474	16:48
	1,13390,07060	4135,06968	4126,33380	49348,9384	116,91837	
27	99788,16924,44022	15 33909,24030	15 37165,42945	9,99907,90549,5030	11,18579,96637	16:12
	1,13694,04275	4112,98816	4104,25225	49481,7944	116,60711	
26	99787,03230,39747	15 29796,25214	15 33061,17720	9,99907,41067,7086	11,18463,35926	15:36
	1,13998,01143	4091,08331	4082,34733	49614,6533	116,29751	
25	99785,89232,38604	15 25705,16883	15 28978,82987	9,99906,91453,0553	11,18347,06175	15: 0
	1,14301,97665	4069,35323	4060,61721	49747,5153	115,98956	
24	99784,74930,40939	15 21635,81560	15 24918,21266	9,99906,41705,5400	11,18231,07219	14:24
	1,14605,93837	4047,79606	4039,05999	49880,3803	115,68325	
23	99783,60324,47102	15 17588,01954	15 20879,15267	9,99905,91825,1597	11,18115,38894	13:48
	1,14909,89661	4026,40999	4017,67386	50013,2484	115,37858	
22	99782,45414,57441	15 13561,60955	15 16861,47881	9,99905,41811,9113	11,18000,01036	13:12
	1,15213,85134	4005,19320	3996,45702	50146,1196	115,07551	
21	99781,30200,72307	15 09556,41635	15 12865,02179	9,99904,91665,7917	11,17884,93485	12:36
	1,15517,80257	3984,14390	3975,40768	50278,9937	114,77406	
20	99780,14682,92050	15 05572,27245	15 08889,61411	9,99904,41386,7980	11,17770,16079	12: 0
	1,15821,75028	3963,26036	3954,52408	50411,8711	114,47418	
19	99778,98861,17022	15 01609,01209	15 04935,09003	9,99903,90974,9269	11,17655,68661	11:24
	1,16125,69446	3942,54082	3933,80449	50544,7514	114,17589	
18	99777,82735,47576	14 97666,47127	15 01001,28554	9,99903,40430,1755	11,17541,51072	10:48
	1,16429,63510	3921,98357	3913,24720	50677,6350	113,87916	
17	99776,66305,84066	14 93744,48770	14 97088,03834	9,99902,89752,5405	11,17427,63156	10:12
	1,16733,57219	3901,58692	3892,85050	50810,5214	113,58398	
16	99775,49572,26847	14 89842,90078	14 93195,18784	9,99902,38942,0191	11,17314,04758	9:36
	1,17037,50574	3881,34922	3872,61274	50943,4112	113,29034	
15	99774,32534,76273	14 85961,55156	14 89322,57510	9,99901,87998,6079	11,17200,75724	9: 0
	1,17341,43571	3861,26880	3852,53227	51076,3040	112,99823	
14	99773,15193,32702	14 82100,28276	14 85470,04283	9,99901,36922,3039	11,17087,75901	8:24
	1,17645,36211	3841,34405	3832,60746	51209,1999	112,70763	
13	99771,97547,96491	14 78258,93871	14 81637,43537	9,99900,85713,1040	11,16975,05138	7:48
	1,17949,28493	3821,57334	3812,83671	51342,0989	112,41855	
12	99770,79598,67998	14 74437,36537	14 77824,59866	9,99900,34371,0051	11,16862,63283	7:12
	1,18253,20415	3801,95512	3793,21844	51475,0012	112,13095	
11	99769,61345,47583	14 70635,41025	14 74031,38022	9,99899,82896,0039	11,16750,50188	6:36
	1,18557,11978	3782,48780	3773,75106	51607,9065	111,84484	
10	99768,42788,35605	14 66852,92245	14 70257,62916	9,99899,31288,0974	11,16638,65704	6: 0
	1,18861,03178	3763,16985	3754,43307	51740,8150	111,56019	
9	99767,23927,32427	14 63089,75260	14 66503,19609	9,99898,79547,2824	11,16527,09685	5:24
	1,19164,94017	3743,99975	3735,26290	51873,7267	111,27700	
8	99766,04762,38410	14 59345,75285	14 62767,93319	9,99898,27673,5557	11,16415,81985	4:48
	1,19468,84493	3724,97597	3716,23908	52006,6415	110,99526	
7	99764,85293,53917	14 55620,77688	14 59051,69411	9,99897,75666,9142	11,16304,82459	4:12
	1,19772,74606	3706,09705	3697,36011	52139,5596	110,71496	
6	99763,65520,79311	14 51914,67983	14 55354,33400	9,99897,23527,3546	11,16194,10963	3:36
	1,20076,64352	3687,36152	3678,62452	52272,4808	110,43609	
5	99762,45444,14959	14 48227,31831	14 51675,70948	9,99896,71254,8738	11,16083,67354	3: 0
	1,20380,53734	3668,76792	3660,03087	52405,4053	110,15862	
4	99761,25063,61225	14 44558,55039	14 48015,67861	9,99896,18849,4685	11,15973,51492	2:24
	1,20684,42748	3650,31482	3641,57772	52538,3328	109,88256	
3	99760,04379,18477	14 40908,23557	14 44374,10089	9,99895,66311,1357	11,15863,63236	1:48
	1,20988,31396	3632,00083	3623,26367	52671,2638	109,60790	
2	99758,83390,87081	14 37276,23474	14 40750,83722	9,99895,13639,8719	11,15754,02446	1:12
	1,21292,19674	3613,82452	3605,08731	52804,1978	109,33462	
1	99757,62098,67407	14 33662,41022	14 37145,74991	9,99894,60835,6741	11,15644,68984	0:36
	1,21596,07583	3595,78455	3587,04729	52937,1351	109,06270	
0	99756,40502,59824	14 30066,62567	14 33558,70262	9,99894,07898,5390	11,15535,62714	0: 0
	1,21899,95121	3577,87953	3569,14222	53070,0756	108,79216	

GRAD. 86.

4. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
0	6975,64737,44125	6992,68119	1 00244,18981	8,84358,45184,8163	8,84464,37286	0: 0
	17,41067,08430	17,53885	1,22497	108,26145,9624	108,79216	
1	6993,05804,52555	7010,22004	1 00245,41478	8,84466,71330,7787	8,84573,16502	0:36
	17,41045,78223	17,53928	1,22806	107,99093,5419	108,52297	
2	7010,46850,30778	7027,75932	1 00246,64284	8,84574,70424,3206	8,84681,68799	1:12
	17,41024,42711	17,53971	1,23114	107,72175,3241	108,25511	
3	7027,87874,73489	7045,29903	1 00247,87398	8,84682,42599,6447	8,84789,94310	1:48
	17,41003,01898	17,54014	1,23423	107,45390,3111	107,98859	
4	7045,28877,75387	7062,83917	1 00249,10821	8,84789,87989,9558	8,84897,93169	2:24
	17,40981,55780	17,54057	1,23731	107,18737,5151	107,72340	
5	7062,69859,31167	7080,37974	1 00250,34552	8,84897,06727,4709	8,85005,65509	3: 0
	17,40960,04358	17,54101	1,24040	106,92215,9576	107,45951	
6	7080,10819,35525	7097,92075	1 00251,58592	8,85003,98943,4285	8,85113,11460	3:36
	17,40938,47635	17,54144	1,24348	106,65824,6705	107,19692	
7	7097,51757,83160	7115,46219	1 00252,82940	8,85110,64768,0990	8,85220,31152	4:12
	17,40916,85607	17,54188	1,24656	106,39562,6943	106,93563	
8	7114,92674,68767	7133,00407	1 00254,07596	8,85217,04330,7933	8,85327,24715	4:48
	17,40895,18276	17,54231	1,24965	106,13429,0798	106,67563	
9	7132,33569,87043	7150,54638	1 00255,32561	8,85323,17759,8731	8,85433,92278	5:24
	17,40873,45643	17,54275	1,25274	105,87422,8861	106,41690	
10	7149,74443,32686	7168,08913	1 00256,57835	8,85429,05182,7592	8,85540,33968	6: 0
	17,40851,67706	17,54319	1,25582	105,61543,1825	106,15943	
11	7167,15295,00392	7185,63232	1 00257,83417	8,85534,66725,9417	8,85646,49911	6:36
	17,40829,84466	17,54363	1,25890	105,35789,0465	105,90321	
12	7184,56124,84858	7203,17595	1 00259,09307	8,85640,02514,9882	8,85752,40232	7:12
	17,40807,95924	17,54407	1,26199	105,10159,5650	105,64826	
13	7201,96932,80782	7220,72002	1 00260,35506	8,85745,12674,5532	8,85858,05058	7:48
	17,40786,02079	17,54451	1,26508	104,84653,8336	105,39452	
14	7219,37718,82861	7238,26453	1 00261,62014	8,85849,97328,3868	8,85963,44510	8:24
	17,40764,02930	17,54496	1,26817	104,59270,9565	105,14203	
15	7236,78482,85791	7255,80949	1 00262,88831	8,85954,56599,3433	8,86068,58713	9: 0
	17,40741,98480	17,54540	1,27125	104,34010,0469	104,89074	
16	7254,19224,84271	7273,35489	1 00264,15956	8,86058,90609,3902	8,86173,47787	9:36
	17,40719,88726	17,54585	1,27433	104,08870,2262	104,64068	
17	7271,59944,72997	7290,90074	1 00265,43389	8,86162,99479,6164	8,86278,11855	10:12
	17,40697,73671	17,54629	1,27743	103,83850,6241	104,39181	
18	7289,00642,46668	7308,44703	1 00266,71132	8,86266,83330,2405	8,86382,51036	10:48
	17,40675,53312	17,54674	1,28051	103,58950,3790	104,14414	
19	7306,41317,99980	7325,99377	1 00267,99183	8,86370,42280,6195	8,86486,65450	11:24
	17,40653,27652	17,54719	1,28359	103,34168,6375	103,89765	
20	7323,81971,27632	7343,54096	1 00269,27542	8,86473,76449,2570	8,86590,55215	12: 0
	17,40630,96688	17,54764	1,28669	103,09504,5537	103,65234	
21	7341,22602,24320	7361,08860	1 00270,56211	8,86576,85953,8107	8,86694,20449	12:36
	17,40608,60423	17,54809	1,28977	102,84957,2906	103,40820	
22	7358,63210,84743	7378,63669	1 00271,85188	8,86679,70911,1013	8,86797,61269	13:12
	17,40586,18856	17,54854	1,29286	102,60526,0184	103,16522	
23	7376,03797,03599	7396,18523	1 00273,14474	8,86782,31437,1197	8,86900,77791	13:48
	17,40563,71986	17,54900	1,29595	102,36209,9156	102,92338	
24	7393,44360,75585	7413,73423	1 00274,44069	8,86884,67647,0353	8,87003,70129	14:24
	17,40541,19814	17,54944	1,29903	102,12008,1683	102,68270	
25	7410,84901,95399	7431,28367	1 00275,73972	8,86986,79655,2036	8,87106,38399	15: 0
	17,40518,62341	17,54991	1,30213	101,87919,9701	102,44315	
26	7428,25420,57740	7448,83358	1 00277,04185	8,87088,67575,1737	8,87208,82714	15:36
	17,40495,99565	17,55036	1,30521	101,63944,5224	102,20472	
27	7445,65916,57305	7466,38394	1 00278,34706	8,87190,31519,6961	8,87311,03186	16:12
	17,40473,31487	17,55082	1,30830	101,40081,0340	101,96742	
28	7463,06389,88792	7483,93476	1 00279,65536	8,87291,71600,7301	8,87412,99928	16:48
	17,40450,58108	17,55127	1,31139	101,16328,7208	101,73122	
29	7480,46840,46900	7501,48603	1 00280,96675	8,87392,87929,4509	8,87514,73050	17:24
	17,40427,79428	17,55174	1,31448	100,92686,8065	101,49614	
30	7497,87268,26328	7519,03777	1 00282,28123	8,87493,80616,2574	8,87616,22664	18: 0
	17,40404,95444	17,55220	1,31757	100,69154,5218	101,26214	
31	7515,27673,21772	7536,58997	1 00283,59880	8,87594,49770,7792	8,87717,48878	18:36
	17,40382,06161	17,55266	1,32066	100,45731,1043	101,02924	
32	7532,68055,27933	7554,14263	1 00284,91946	8,87694,95501,8835	8,87818,51802	19:12
	17,40359,11574	17,55312	1,32375	100,22415,7989	100,79742	
33	7550,08414,39507	7571,69575	1 00286,24321	8,87795,17917,6824	8,87919,31544	19:48
	17,40336,11688	17,55358	1,32683	99,99207,8576	100,56667	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
100	99756,40502,59824	14 30066,62567	14 33558,70262	9,99894,07898,5390	11,15535,62714	60: 0
	1,21899,95121	3577,87953	3569,14222	53070,0756	108,79216	
99	99755,18602,64703	14 26488,74614	14 29989,56040	9,99893,54828,4634	11,15426,83498	59:24
	1,22203,82289	3560,10814	3551,37077	53203,0195	108,52297	
98	99753,96398,82414	14 22928,63800	14 26438,18963	9,99893,01625,4439	11,15318,31201	58:48
	1,22507,69084	3542,46904	3533,73161	53335,9665	108,25511	
97	99752,73891,13330	14 19386,16896	14 22904,45802	9,99892,48289,4774	11,15210,05690	58:12
	1,22811,55506	3524,96092	3516,22345	53468,9168	107,98859	
96	99751,51079,57824	14 15861,20804	14 19388,23457	9,99891,94820,5606	11,15102,06831	57:36
	1,23115,41554	3507,58249	3498,84496	53601,8705	107,72340	
95	99750,27964,16270	14 12353,62555	14 15889,38961	9,99891,41218,6901	11,14994,34491	57: 0
	1,23419,27226	3490,33248	3481,59489	53734,8273	107,45951	
94	99749,04544,89044	14 08863,29307	14 12407,79472	9,99890,87483,8628	11,14886,88540	56:24
	1,23723,12523	3473,20961	3464,47198	53867,7874	107,19692	
93	99747,80821,76521	14 05390,08346	14 08943,32274	9,99890,33616,0754	11,14779,68848	55:48
	1,24026,97443	3456,21265	3447,47496	54000,7510	106,93563	
92	99746,56794,79078	14 01933,87081	14 05495,84778	9,99889,79615,3244	11,14672,75285	55:12
	1,24330,81986	3439,34036	3430,60262	54133,7177	106,67563	
91	99745,32463,97092	13 98494,53045	14 02065,24516	9,99889,25481,6067	11,14566,07722	54:36
	1,24634,66148	3422,59153	3413,85372	54266,6878	106,41690	
90	99744,07829,30944	13 95071,93892	13 98651,39144	9,99888,71214,9189	11,14459,66032	54: 0
	1,24938,49932	3405,96495	3397,22710	54399,6612	106,15943	
89	99742,82890,81012	13 91665,97397	13 95254,16434	9,99888,16815,2577	11,14353,50089	53:24
	1,25242,33335	3389,45944	3380,72153	54532,6379	105,90321	
88	99741,57648,47677	13 88276,51453	13 91873,44281	9,99887,62282,6198	11,14247,59768	52:48
	1,25546,16357	3373,07382	3364,33586	54665,6181	105,64826	
87	99740,32102,31320	13 84903,44071	13 88509,10695	9,99887,07617,0017	11,14141,94942	52:12
	1,25849,98996	3356,80695	3348,06893	54798,6014	105,39452	
86	99739,06252,32324	13 81546,63376	13 85161,03802	9,99886,52818,4003	11,14036,55490	51:36
	1,26153,81252	3340,65766	3331,91958	54931,5882	105,14203	
85	99737,80098,51072	13 78205,97610	13 81829,11844	9,99885,97886,8121	11,13931,41287	51: 0
	1,26457,63124	3324,62483	3315,88671	55064,5784	104,89074	
84	99736,53640,87948	13 74881,35127	13 78513,23173	9,99885,42822,2337	11,13826,52213	50:24
	1,26761,44609	3308,70735	3299,96916	55197,5719	104,64068	
83	99735,26879,43339	13 71572,64392	13 75213,26257	9,99884,87624,6618	11,13721,88145	49:48
	1,27065,25710	3292,90412	3284,16587	55330,5689	104,39181	
82	99733,99814,17629	13 68279,73980	13 71929,09670	9,99884,32294,0929	11,13617,48964	49:12
	1,27369,06423	3277,21402	3268,47573	55463,5691	104,14414	
81	99732,72445,11206	13 65002,52578	13 68660,62097	9,99883,76830,5238	11,13513,34550	48:36
	1,27672,86748	3261,63600	3252,89765	55596,5728	103,89765	
80	99731,44772,24458	13 61740,88978	13 65407,72332	9,99883,21233,9510	11,13409,44785	48: 0
	1,27976,66684	3246,16899	3237,43059	55729,5798	103,65234	
79	99730,16795,57774	13 58494,72079	13 62170,29273	9,99882,65504,3712	11,13305,79551	47:24
	1,28280,46231	3230,81194	3222,07347	55862,5904	103,40820	
78	99728,88515,11543	13 55263,90885	13 58948,21926	9,99882,09641,7808	11,13202,38731	46:48
	1,28584,25386	3215,56380	3206,82528	55995,6043	103,16522	
77	99727,59930,86157	13 52048,34505	13 55741,39398	9,99881,53646,1765	11,13099,22209	46:12
	1,28888,04150	3200,42354	3191,68497	56128,6217	102,92338	
76	99726,31042,82007	13 48847,92151	13 52549,70901	9,99880,97517,5548	11,12996,29871	45:36
	1,29191,82521	3185,39017	3176,65153	56261,6425	102,68270	
75	99725,01850,99486	13 45662,53134	13 49373,05748	9,99880,41255,9123	11,12893,61601	45: 0
	1,29495,60499	3170,46266	3161,72397	56394,6667	102,44315	
74	99723,72355,38987	13 42492,06868	13 46211,33351	9,99879,84861,2456	11,12791,17286	44:24
	1,29799,38083	3155,64003	3146,90128	56527,6944	102,20472	
73	99722,42556,00904	13 39336,42865	13 43064,43223	9,99879,28333,5512	11,12688,96814	43:48
	1,30103,15270	3140,92129	3132,18249	56660,7256	101,96742	
72	99721,12452,85634	13 36195,50736	13 39932,24974	9,99878,71672,8256	11,12587,00072	43:12
	1,30406,92062	3126,30548	3117,56662	56793,7602	101,73122	
71	99719,82045,93572	13 33069,20188	13 36814,68312	9,99878,14879,0654	11,12485,26950	42:36
	1,30710,68456	3111,79165	3103,05273	56926,7983	101,49614	
70	99718,51335,25116	13 29957,41023	13 33711,63039	9,99877,57952,2671	11,12383,77336	42: 0
	1,31014,44453	3097,37883	3088,63986	57059,8400	101,26214	
69	99717,20320,80663	13 26860,03140	13 30622,99053	9,99877,00892,4271	11,12282,51122	41:24
	1,31318,20049	3083,06612	3074,32709	57192,8850	101,02924	
68	99715,89002,60614	13 23776,96528	13 27548,66344	9,99876,43699,5421	11,12181,48198	40:48
	1,31621,95247	3068,85256	3060,11347	57325,9336	100,79742	
67	99714,57380,65367	13 20708,11272	13 24488,54997	9,99875,86373,6085	11,12080,68456	40:12
	1,31925,70042	3054,73725	3045,99810	57458,9857	100,56667	

GRAD. 85.

4. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	7550,08414,39507	7571,69575	1 00286,24321	8,87795,17917,6824	8,87919,31544	19:48
	17,40336,11688	17,55358	1,32683	99,99207,8576	100,56667	
34	7567,48750,51195	7589,24933	1 00287,57004	8,87895,17125,5400	8,88019,88211	20:24
	17,40313,06499	17,55405	1,32993	99,76106,5388	100,33698	
35	7584,89063,57694	7606,80338	1 00288,89997	8,87994,93232,0788	8,88120,21909	21: 0
	17,40289,96009	17,55452	1,33302	99,53111,1083	100,10837	
36	7602,29353,53703	7624,35790	1 00290,23299	8,88094,46343,1871	8,88220,32746	21:36
	17,40266,80218	17,55498	1,33611	99,30220,8381	99,88079	
37	7619,69620,33921	7641,91288	1 00291,56910	8,88193,76564,0252	8,88320,20825	22:12
	17,40243,59126	17,55546	1,33920	99,07435,0073	99,65426	
38	7637,09863,93047	7659,46834	1 00292,90830	8,88292,83999,0325	8,88419,86251	22:48
	17,40220,32733	17,55592	1,34229	98,84752,9013	99,42877	
39	7654,50084,25780	7677,02426	1 00294,25059	8,88391,68751,9338	8,88519,29128	23:24
	17,40197,01039	17,55639	1,34538	98,62173,8120	99,20431	
40	7671,90281,26819	7694,58065	1 00295,59597	8,88490,30925,7458	8,88618,49559	24: 0
	17,40173,64043	17,55686	1,34847	98,39697,0379	98,98088	
41	7689,30454,90862	7712,13751	1 00296,94444	8,88588,70622,7837	8,88717,47647	24:36
	17,40150,21747	17,55734	1,35157	98,17321,8838	98,75845	
42	7706,70605,12609	7729,69485	1 00298,29601	8,88686,87944,6675	8,88816,23492	25:12
	17,40126,74150	17,55781	1,35466	97,95047,6606	98,53705	
43	7724,10731,86759	7747,25266	1 00299,65067	8,88784,82992,3281	8,88914,77197	25:48
	17,40103,21253	17,55828	1,35774	97,72873,6856	98,31663	
44	7741,50835,08012	7764,81094	1 00301,00841	8,88882,55866,0137	8,89013,08860	26:24
	17,40079,63054	17,55876	1,36085	97,50799,2823	98,09722	
45	7758,90914,71066	7782,36970	1 00302,36926	8,88980,06665,2960	8,89111,18582	27: 0
	17,40055,99555	17,55924	1,36393	97,28823,7802	97,87880	
46	7776,30970,70621	7799,92894	1 00303,73319	8,89077,35489,0762	8,89209,06462	27:36
	17,40032,30756	17,55972	1,36702	97,06946,5147	97,66135	
47	7793,71003,01377	7817,48866	1 00305,10021	8,89174,42435,5909	8,89306,72597	28:12
	17,40008,56657	17,56019	1,37012	96,85166,8271	97,44489	
48	7811,11011,58034	7835,04885	1 00306,47033	8,89271,27602,4180	8,89404,17086	28:48
	17,39984,77255	17,56068	1,37321	96,63484,0651	97,22939	
49	7828,50996,35289	7852,60953	1 00307,84354	8,89367,91086,4831	8,89501,40025	29:24
	17,39960,92556	17,56115	1,37631	96,41897,5813	97,01486	
50	7845,90957,27845	7870,17068	1 00309,21985	8,89464,32984,0644	8,89598,41511	30: 0
	17,39937,02555	17,56164	1,37940	96,20406,7349	96,80128	
51	7863,30894,30400	7887,73232	1 00310,59925	8,89560,53390,7993	8,89695,21639	30:36
	17,39913,07254	17,56212	1,38249	95,99010,8904	96,58866	
52	7880,70807,37654	7905,29444	1 00311,98174	8,89656,52401,6897	8,89791,80505	31:12
	17,39889,06652	17,56261	1,38558	95,77709,4179	96,37697	
53	7898,10696,44306	7922,85705	1 00313,36732	8,89752,30111,1076	8,89888,18202	31:48
	17,39865,00752	17,56309	1,38868	95,56501,6930	96,16622	
54	7915,50561,45058	7940,42014	1 00314,75600	8,89847,86612,8006	8,89984,34824	32:24
	17,39840,89551	17,56358	1,39178	95,35387,0970	95,95641	
55	7932,90402,34609	7957,98372	1 00316,14778	8,89943,21999,8976	8,90080,30465	33: 0
	17,39816,73051	17,56407	1,39487	95,14365,0167	95,74752	
56	7950,30219,07660	7975,54779	1 00317,54265	8,90038,36364,9143	8,90176,05217	33:36
	17,39792,51250	17,56456	1,39796	94,93434,8437	95,53955	
57	7967,70011,58910	7993,11235	1 00318,94061	8,90133,29799,7580	8,90271,59172	34:12
	17,39768,24149	17,56504	1,40106	94,72595,9757	95,33250	
58	7985,09779,83059	8010,67739	1 00320,34167	8,90228,02395,7337	8,90366,92422	34:48
	17,39743,91750	17,56554	1,40415	94,51847,8152	95,12634	
59	8002,49523,74809	8028,24293	1 00321,74582	8,90322,54243,5489	8,90462,05056	35:24
	17,39719,54050	17,56603	1,40725	94,31189,7698	94,92109	
60	8019,89243,28859	8045,80896	1 00323,15307	8,90416,85433,3187	8,90556,97165	36: 0
	17,39695,11051	17,56652	1,41034	94,10621,2527	94,71674	
61	8037,28938,39910	8063,37548	1 00324,56341	8,90510,96054,5714	8,90651,68839	36:36
	17,39670,62753	17,56702	1,41344	93,90141,6816	94,51328	
62	8054,68609,02663	8080,94250	1 00325,97685	8,90604,86196,2530	8,90746,20167	37:12
	17,39646,09155	17,56752	1,41654	93,69750,4798	94,31069	
63	8072,08255,11818	8098,51002	1 00327,39339	8,90698,55946,7328	8,90840,51236	37:48
	17,39621,50259	17,56801	1,41963	93,49447,0753	94,10900	
64	8089,47876,62077	8116,07803	1 00328,81302	8,90792,05393,8081	8,90934,62136	38:24
	17,39596,86062	17,56850	1,42273	93,29230,9010	93,90816	
65	8106,87473,48139	8133,64653	1 00330,23575	8,90885,34624,7091	8,91028,52952	39: 0
	17,39572,16567	17,56901	1,42583	93,09101,3946	93,70820	
66	8124,27045,64706	8151,21554	1 00331,66158	8,90978,43726,1037	8,91122,23772	39:36
	17,39547,41772	17,56951	1,42892	92,89057,9991	93,50910	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	99714,57380,65367	13 20708,11272	13 24488,54997	9,99875,86373,6085	11,12080,68456	40:12
	1,31925,70042	3054,73725	3045,99810	57458,9857	100,56667	
66	99713,25454,95325	13 17653,37547	13 21442,55187	9,99875,28914,6228	11,11980,11789	39:36
	1,32229,44437	3040,71929	3031,98009	57592,0414	100,33698	
65	99711,93225,50888	13 14612,65618	13 18410,57178	9,99874,71322,5814	11,11879,78091	39: 0
	1,32533,18428	3026,79779	3018,05852	57725,1005	100,10837	
64	99710,60692,32460	13 11585,85839	13 15392,51326	9,99874,13597,4809	11,11779,67254	38:24
	1,32836,92016	3012,97185	3004,23254	57858,1632	99,88079	
63	99709,27855,40444	13 08572,88654	13 12388,28072	9,99873,55739,3177	11,11679,79175	37:48
	1,33140,65199	2999,24062	2990,50124	57991,2295	99,65426	
62	99707,94714,75245	13 05573,64592	13 09397,77948	9,99872,97748,0882	11,11580,13749	37:12
	1,33444,37977	2985,60322	2976,86378	58124,2993	99,42877	
61	99706,61270,37268	13 02588,04270	13 06420,91570	9,99872,39623,7889	11,11480,70872	36:36
	1,33748,10348	2972,05880	2963,31930	58257,3726	99,20431	
60	99705,27522,26920	12 99615,98390	13 03457,59640	9,99871,81366,4163	11,11381,50441	36: 0
	1,34051,82311	2958,60653	2949,86697	58390,4495	98,98088	
59	99703,93470,44609	12 96657,37737	13 00507,72943	9,99871,22975,9668	11,11282,52353	35:24
	1,34355,53867	2945,24555	2936,50594	58523,5301	98,75845	
58	99702,59114,90742	12 93712,13182	12 97571,22349	9,99870,64452,4367	11,11183,76508	34:48
	1,34659,25012	2931,97506	2923,23539	58656,6142	98,53705	
57	99701,24455,65730	12 90780,15676	12 94647,98810	9,99870,05795,8225	11,11085,22803	34:12
	1,34962,95748	2918,79423	2910,05450	58789,7018	98,31663	
56	99699,89492,69982	12 87861,36253	12 91737,93360	9,99869,47006,1207	11,10986,91140	33:36
	1,35266,66073	2905,70227	2896,96248	58922,7932	98,09722	
55	99698,54226,03909	12 84955,66026	12 88840,97112	9,99868,88083,3275	11,10888,81418	33: 0
	1,35570,35986	2892,69836	2883,95851	59055,8880	97,87880	
54	99697,18655,67923	12 82062,96190	12 85957,01261	9,99868,29027,4395	11,10790,93538	32:24
	1,35874,05485	2879,78174	2871,04183	59188,9866	97,66135	
53	99695,82781,62438	12 79183,18016	12 83085,97078	9,99867,69838,4529	11,10693,27403	31:48
	1,36177,74571	2866,95160	2858,21163	59322,0887	97,44489	
52	99694,46603,87867	12 76316,22856	12 80227,75915	9,99867,10516,3642	11,10595,82914	31:12
	1,36481,43242	2854,20719	2845,46717	59455,1946	97,22939	
51	99693,10122,44625	12 73462,02137	12 77382,29198	9,99866,51061,1696	11,10498,59975	30:36
	1,36785,11497	2841,54775	2832,80766	59588,3039	97,01486	
50	99691,73337,33128	12 70620,47362	12 74549,48432	9,99865,91472,8657	11,10401,58489	30: 0
	1,37088,79336	2828,97252	2820,23237	59721,4170	96,80128	
49	99690,36248,53792	12 67791,50110	12 71729,25195	9,99865,31751,4487	11,10304,78361	29:24
	1,37392,46756	2816,48074	2807,74053	59854,5338	96,58866	
48	99688,98856,07036	12 64975,02036	12 68921,51142	9,99864,71896,9149	11,10208,19495	28:48
	1,37696,13759	2804,07170	2795,33143	59987,6542	96,37697	
47	99687,61159,93277	12 62170,94866	12 66126,17999	9,99864,11909,2607	11,10111,81798	28:12
	1,37999,80342	2791,74465	2783,00433	60120,7783	96,16622	
46	99686,23160,12935	12 59379,20401	12 63343,17566	9,99863,51788,4824	11,10015,65176	27:36
	1,38303,46504	2779,49889	2770,75849	60253,9061	95,95641	
45	99684,84856,66431	12 56599,70512	12 60572,41717	9,99862,91534,5763	11,09919,69535	27: 0
	1,38607,12246	2767,33368	2758,59324	60387,0376	95,74752	
44	99683,46249,54185	12 53832,37144	12 57813,82393	9,99862,31147,5387	11,09823,94783	26:24
	1,38910,77565	2755,24833	2746,50782	60520,1727	95,53955	
43	99682,07338,76620	12 51077,12311	12 55067,31611	9,99861,70627,3660	11,09728,40828	25:48
	1,39214,42461	2743,24216	2734,50159	60653,3116	95,33250	
42	99680,68124,34159	12 48333,88095	12 52332,81452	9,99861,09974,0544	11,09633,07578	25:12
	1,39518,06932	2731,31444	2722,57381	60786,4543	95,12634	
41	99679,28606,27227	12 45602,56651	12 49610,24071	9,99860,49187,6001	11,09537,94944	24:36
	1,39821,70980	2719,46453	2710,72383	60919,6005	94,92109	
40	99677,88784,56247	12 42883,10198	12 46899,51688	9,99859,88267,9996	11,09443,02835	24: 0
	1,40125,34600	2707,69171	2698,95096	61052,7506	94,71674	
39	99676,48659,21647	12 40175,41027	12 44200,56592	9,99859,27215,2490	11,09348,31161	23:24
	1,40428,97795	2695,99536	2687,25455	61185,9045	94,51328	
38	99675,08230,23852	12 37479,41491	12 41513,31137	9,99858,66029,3445	11,09253,79833	22:48
	1,40732,60560	2684,37479	2675,63391	61319,0620	94,31069	
37	99673,67497,63292	12 34795,04012	12 38837,67746	9,99858,04710,2825	11,09159,48764	22:12
	1,41036,22899	2672,82935	2664,08841	61452,2233	94,10900	
36	99672,26461,40393	12 32122,21077	12 36173,58905	9,99857,43258,0592	11,09065,37864	21:36
	1,41339,84806	2661,35840	2652,61739	61585,3884	93,90816	
35	99670,85121,55587	12 29460,85237	12 33520,97166	9,99856,81672,6708	11,08971,47048	21: 0
	1,41643,46284	2649,96129	2641,22023	61718,5573	93,70820	
34	99669,43478,09303	12 26810,89108	12 30879,75143	9,99856,19954,1135	11,08877,76228	20:24
	1,41947,07330	2638,63740	2629,89628	61851,7300	93,50910	

GRAD. 85.

4. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	8141,66593,06478	8168,78505	1 00333,09050	8,91071,32784,1028	8,91215,74682	40:12
	17,39522,61680	17,57000	1,43202	92,69100,1614	93,31085	
68	8159,06115,68158	8186,35505	1 00334,52252	8,91164,01884,2642	8,91309,05767	40:48
	17,39497,76287	17,57051	1,43512	92,49227,3342	93,11345	
69	8176,45613,44445	8203,92556	1 00335,95764	8,91256,51111,5984	8,91402,17112	41:24
	17,39472,85596	17,57102	1,43821	92,29438,9739	92,91690	
70	8193,85086,30041	8221,49658	1 00337,39585	8,91348,80550,5723	8,91495,08802	42: 0
	17,39447,89606	17,57151	1,44131	92,09734,5420	92,72119	
71	8211,24534,19647	8239,06809	1 00338,83716	8,91440,90285,1143	8,91587,80921	42:36
	17,39422,88319	17,57202	1,44441	91,90113,5046	92,52632	
72	8228,63957,07966	8256,64011	1 00340,28157	8,91532,80398,6189	8,91680,33553	43:12
	17,39397,81731	17,57253	1,44751	91,70575,3321	92,33226	
73	8246,03354,89697	8274,21264	1 00341,72908	8,91624,50973,9510	8,91772,66779	43:48
	17,39372,69845	17,57304	1,45061	91,51119,4995	92,13903	
74	8263,42727,59542	8291,78568	1 00343,17969	8,91716,02093,4505	8,91864,80682	44:24
	17,39347,52662	17,57354	1,45370	91,31745,4863	91,94663	
75	8280,82075,12204	8309,35922	1 00344,63339	8,91807,33838,9368	8,91956,75345	45: 0
	17,39322,30180	17,57406	1,45681	91,12452,7762	91,75503	
76	8298,21397,42384	8326,93328	1 00346,09020	8,91898,46291,7130	8,92048,50848	45:36
	17,39297,02399	17,57456	1,45990	90,93240,8573	91,56425	
77	8315,60694,44783	8344,50784	1 00347,55010	8,91989,39532,5703	8,92140,07273	46:12
	17,39271,69320	17,57508	1,46300	90,74109,2220	91,37426	
78	8332,99966,14103	8362,08292	1 00349,01310	8,92080,13641,7923	8,92231,44699	46:48
	17,39246,30944	17,57559	1,46611	90,55057,3671	91,18507	
79	8350,39212,45047	8379,65851	1 00350,47921	8,92170,68699,1594	8,92322,63206	47:24
	17,39220,87268	17,57611	1,46920	90,36084,7934	90,99669	
80	8367,78433,32315	8397,23462	1 00351,94841	8,92261,04783,9528	8,92413,62875	48: 0
	17,39195,38296	17,57662	1,47230	90,17191,0056	90,80907	
81	8385,17628,70611	8414,81124	1 00353,42071	8,92351,21974,9584	8,92504,43782	48:36
	17,39169,84025	17,57713	1,47540	89,98375,5133	90,62225	
82	8402,56798,54636	8432,38837	1 00354,89611	8,92441,20350,4717	8,92595,06007	49:12
	17,39144,24457	17,57766	1,47850	89,79637,8293	90,43621	
83	8419,95942,79093	8449,96603	1 00356,37461	8,92530,99988,3010	8,92685,49628	49:48
	17,39118,59590	17,57817	1,48161	89,60977,4711	90,25094	
84	8437,35061,38683	8467,54420	1 00357,85622	8,92620,60965,7721	8,92775,74722	50:24
	17,39092,89426	17,57869	1,48470	89,42393,9597	90,06643	
85	8454,74154,28109	8485,12289	1 00359,34092	8,92710,03359,7318	8,92865,81365	51: 0
	17,39067,13964	17,57921	1,48781	89,23886,8204	89,88270	
86	8472,13221,42073	8502,70210	1 00360,82873	8,92799,27246,5522	8,92955,69635	51:36
	17,39041,33206	17,57973	1,49091	89,05455,5820	89,69972	
87	8489,52262,75279	8520,28183	1 00362,31964	8,92888,32702,1342	8,93045,39607	52:12
	17,39015,47149	17,58026	1,49400	88,87099,7777	89,51749	
88	8506,91278,22428	8537,86209	1 00363,81364	8,92977,19801,9119	8,93134,91356	52:48
	17,38989,55795	17,58078	1,49711	88,68818,9441	89,33601	
89	8524,30267,78223	8555,44287	1 00365,31075	8,93065,88620,8560	8,93224,24957	53:24
	17,38963,59144	17,58131	1,50022	88,50612,6217	89,15528	
90	8541,69231,37367	8573,02418	1 00366,81097	8,93154,39233,4777	8,93313,40485	54: 0
	17,38937,57196	17,58183	1,50331	88,32480,3549	88,97530	
91	8559,08168,94563	8590,60601	1 00368,31428	8,93242,71713,8326	8,93402,38015	54:36
	17,38911,49951	17,58236	1,50642	88,14421,6915	88,79604	
92	8576,47080,44514	8608,18837	1 00369,82070	8,93330,86135,5241	8,93491,17619	55:12
	17,38885,37408	17,58289	1,50952	87,96436,1833	88,61752	
93	8593,85965,81922	8625,77126	1 00371,33022	8,93418,82571,7074	8,93579,79371	55:48
	17,38859,19569	17,58341	1,51262	87,78523,3855	88,43972	
94	8611,24825,01491	8643,35467	1 00372,84284	8,93506,61095,0929	8,93668,23343	56:24
	17,38832,96432	17,58395	1,51573	87,60682,8570	88,26265	
95	8628,63657,97923	8660,93862	1 00374,35857	8,93594,21777,9499	8,93756,49608	57: 0
	17,38806,68000	17,58448	1,51883	87,42914,1603	88,08629	
96	8646,02464,65923	8678,52310	1 00375,87740	8,93681,64692,1102	8,93844,58237	57:36
	17,38780,34270	17,58501	1,52193	87,25216,8613	87,91066	
97	8663,41245,00193	8696,10811	1 00377,39933	8,93768,89908,9715	8,93932,49303	58:12
	17,38753,95243	17,58555	1,52504	87,07590,5295	87,73572	
98	8680,79998,95436	8713,69366	1 00378,92437	8,93855,97499,5010	8,94020,22875	58:48
	17,38727,50921	17,58608	1,52814	86,90034,7378	87,56150	
99	8698,18726,46357	8731,27974	1 00380,45251	8,93942,87534,2388	8,94107,79025	59:24
	17,38701,01301	17,58661	1,53124	86,72549,0624	87,38798	
100	8715,57427,47658	8748,86635	1 00381,98375	8,94029,60083,3012	8,94195,17823	60: 0
	17,38674,46386	17,58716	1,53435	86,55133,0833	87,21515	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	99668,01531,01973	12 24172,25368	12 28249,85515	9,99855,58102,3835	11,08784,25318	19:48
	1,42250,67943	2627,38610	2618,64492	61984,9064	93,31085	
32	99666,59280,34030	12 21544,86758	12 25631,21023	9,99854,96117,4771	11,08690,94233	19:12
	1,42554,28124	2616,20678	2607,46552	62118,0866	93,11345	
31	99665,16726,05906	12 18928,66080	12 23023,74471	9,99854,33999,3905	11,08597,82888	18:36
	1,42857,87869	2605,09880	2596,35749	62251,2707	92,91690	
30	99663,73868,18037	12 16323,56200	12 20427,38722	9,99853,71748,1198	11,08504,91198	18: 0
	1,43161,47181	2594,06158	2585,32021	62384,4586	92,72119	
29	99662,30706,70856	12 13729,50042	12 17842,06701	9,99853,09363,6612	11,08412,19079	17:24
	1,43465,06055	2583,09452	2574,35307	62517,6503	92,52632	
28	99660,87241,64801	12 11146,40590	12 15267,71394	9,99852,46846,0109	11,08319,66447	16:48
	1,43768,64493	2572,19700	2563,45551	62650,8458	92,33226	
27	99659,43473,00308	12 08574,20890	12 12704,25843	9,99851,84195,1651	11,08227,33221	16:12
	1,44072,22493	2561,36847	2552,62690	62784,0452	92,13903	
26	99657,99400,77815	12 06012,84043	12 10151,63153	9,99851,21411,1199	11,08135,19318	15:36
	1,44375,80054	2550,60832	2541,86670	62917,2485	91,94663	
25	99656,55024,97761	12 03462,23211	12 07609,76483	9,99850,58493,8714	11,08043,24655	15: 0
	1,44679,37174	2539,91599	2531,17430	63050,4555	91,75503	
24	99655,10345,60587	12 00922,31612	12 05078,59053	9,99849,95443,4159	11,07951,49152	14:24
	1,44982,93856	2529,29091	2520,54915	63183,6665	91,56425	
23	99653,65362,66731	11 98393,02521	12 02558,04138	9,99849,32259,7494	11,07859,92727	13:48
	1,45286,50094	2518,73251	2509,99070	63316,8813	91,37426	
22	99652,20076,16637	11 95874,29270	12 00048,05068	9,99848,68942,8681	11,07768,55301	13:12
	1,45590,05890	2508,24024	2499,49836	63450,1001	91,18507	
21	99650,74486,10747	11 93366,05246	11 97548,55232	9,99848,05492,7680	11,07677,36794	12:36
	1,45893,61243	2497,81355	2489,07161	63583,3226	90,99669	
20	99649,28592,49504	11 90868,23891	11 95059,48071	9,99847,41909,4454	11,07586,37125	12: 0
	1,46197,16151	2487,45189	2478,70988	63716,5492	90,80907	
19	99647,82395,33353	11 88380,78702	11 92580,77083	9,99846,78192,8962	11,07495,56218	11:24
	1,46500,70614	2477,15472	2468,41264	63849,7796	90,62225	
18	99646,35894,62739	11 85903,63230	11 90112,35819	9,99846,14343,1166	11,07404,93993	10:48
	1,46804,24631	2466,92151	2458,17938	63983,0140	90,43621	
17	99644,89090,38108	11 83436,71079	11 87654,17881	9,99845,50360,1026	11,07314,50372	10:12
	1,47107,78200	2456,75172	2448,00952	64116,2522	90,25094	
16	99643,41982,59908	11 80979,95907	11 85206,16929	9,99844,86243,8504	11,07224,25278	9:36
	1,47411,31322	2446,64485	2437,90259	64249,4944	90,06643	
15	99641,94571,28586	11 78533,31422	11 82768,26670	9,99844,21994,3560	11,07134,18635	9: 0
	1,47714,83994	2436,60037	2427,85803	64382,7406	89,88270	
14	99640,46856,44592	11 76096,71385	11 80340,40867	9,99843,57611,6154	11,07044,30365	8:24
	1,48018,36216	2426,61775	2417,87536	64515,9906	89,69972	
13	99638,98838,08376	11 73670,09610	11 77922,53331	9,99842,93095,6248	11,06954,60393	7:48
	1,48321,87988	2416,69651	2407,95405	64649,2447	89,51749	
12	99637,50516,20388	11 71253,39959	11 75514,57926	9,99842,28446,3801	11,06865,08644	7:12
	1,48625,39307	2406,83614	2398,09361	64782,5027	89,33601	
11	99636,01890,81081	11 68846,56345	11 73116,48565	9,99841,63663,8774	11,06775,75043	6:36
	1,48928,90175	2397,03613	2388,29354	64915,7648	89,15528	
10	99634,52961,90906	11 66449,52732	11 70728,19211	9,99840,98748,1126	11,06686,59515	6: 0
	1,49232,40587	2387,29600	2378,55335	65049,0307	88,97530	
9	99633,03729,50319	11 64062,23132	11 68349,63876	9,99840,33699,0819	11,06597,61985	5:24
	1,49535,90547	2377,61526	2368,87254	65182,3007	88,79604	
8	99631,54193,59772	11 61684,61606	11 65980,76622	9,99839,68516,7812	11,06508,82381	4:48
	1,49839,40049	2367,99344	2359,25066	65315,5746	88,61752	
7	99630,04354,19723	11 59316,62262	11 63621,51556	9,99839,03201,2066	11,06420,20629	4:12
	1,50142,89096	2358,43005	2349,68719	65448,8526	88,43972	
6	99628,54211,30627	11 56958,19257	11 61271,82837	9,99838,37752,3540	11,06331,76657	3:36
	1,50446,37686	2348,92461	2340,18169	65582,1347	88,26265	
5	99627,03764,92941	11 54609,26796	11 58931,64668	9,99837,72170,2193	11,06243,50392	3: 0
	1,50749,85816	2339,47666	2330,73369	65715,4206	88,08629	
4	99625,53015,07125	11 52269,79130	11 56600,91299	9,99837,06454,7987	11,06155,41763	2:24
	1,51053,33489	2330,08576	2321,34271	65848,7108	87,91066	
3	99624,01961,73636	11 49939,70554	11 54279,57028	9,99836,40606,0879	11,06067,50697	1:48
	1,51356,80700	2320,75142	2312,00830	65982,0048	87,73572	
2	99622,50604,92936	11 47618,95412	11 51967,56198	9,99835,74624,0831	11,05979,77125	1:12
	1,51660,27451	2311,47320	2302,73001	66115,3029	87,56150	
1	99620,98944,65485	11 45307,48092	11 49664,83197	9,99835,08508,7802	11,05892,20975	0:36
	1,51963,73739	2302,25064	2293,50740	66248,6052	87,38798	
0	99619,46980,91746	11 43005,23028	11 47371,32457	9,99834,42260,1750	11,05804,82177	0: 0
	1,52267,19566	2293,08332	2284,34001	66381,9115	87,21515	

GRAD. 85.

5. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
0	8715,57427,47658	8748,86635	1 00381,98375	8,94029,60083,3012	8,94195,17823	0: 0
	17,38674,46386	17,58716	1,53435	86,55133,0833	87,21515	
1	8732,96101,94044	8766,45351	1 00383,51810	8,94116,15216,3845	8,94282,39338	0:36
	17,38647,86173	17,58769	1,53746	86,37786,3834	87,04302	
2	8750,34749,80217	8784,04120	1 00385,05556	8,94202,53002,7679	8,94369,43640	1:12
	17,38621,20665	17,58823	1,54056	86,20508,5490	86,87157	
3	8767,73371,00882	8801,62943	1 00386,59612	8,94288,73511,3169	8,94456,30797	1:48
	17,38594,49861	17,58877	1,54367	86,03299,1700	86,70081	
4	8785,11965,50743	8819,21820	1 00388,13979	8,94374,76810,4869	8,94543,00878	2:24
	17,38567,73760	17,58931	1,54677	85,86157,8391	86,53073	
5	8802,50533,24503	8836,80751	1 00389,68656	8,94460,62968,3260	8,94629,53951	3: 0
	17,38540,92364	17,58986	1,54987	85,69084,1527	86,36133	
6	8819,89074,16867	8854,39737	1 00391,23643	8,94546,32052,4787	8,94715,90084	3:36
	17,38514,05672	17,59040	1,55299	85,52077,7099	86,19259	
7	8837,27588,22539	8871,98777	1 00392,78942	8,94631,84130,1886	8,94802,09343	4:12
	17,38487,13683	17,59094	1,55609	85,35138,1133	86,02453	
8	8854,66075,36222	8889,57871	1 00394,34551	8,94717,19268,3019	8,94888,11796	4:48
	17,38460,16400	17,59149	1,55919	85,18264,9686	85,85714	
9	8872,04535,52622	8907,17020	1 00395,90470	8,94802,37533,2705	8,94973,97510	5:24
	17,38433,13820	17,59204	1,56230	85,01457,8844	85,69040	
10	8889,42968,66442	8924,76224	1 00397,46700	8,94887,38991,1549	8,95059,66550	6: 0
	17,38406,05944	17,59258	1,56541	84,84716,4725	85,52431	
11	8906,81374,72386	8942,35482	1 00399,03241	8,94972,23707,6274	8,95145,18981	6:36
	17,38378,92774	17,59313	1,56852	84,68040,3479	85,35889	
12	8924,19753,65160	8959,94795	1 00400,60093	8,95056,91747,9753	8,95230,54870	7:12
	17,38351,74309	17,59369	1,57163	84,51429,1280	85,19411	
13	8941,58105,39469	8977,54164	1 00402,17256	8,95141,43177,1033	8,95315,74281	7:48
	17,38324,50546	17,59423	1,57473	84,34882,4342	85,02998	
14	8958,96429,90015	8995,13587	1 00403,74729	8,95225,78059,5375	8,95400,77279	8:24
	17,38297,21490	17,59479	1,57784	84,18399,8897	84,86648	
15	8976,34727,11505	9012,73066	1 00405,32513	8,95309,96459,4272	8,95485,63927	9: 0
	17,38269,87139	17,59534	1,58095	84,01981,1216	84,70364	
16	8993,72996,98644	9030,32600	1 00406,90608	8,95393,98440,5488	8,95570,34291	9:36
	17,38242,47492	17,59590	1,58405	83,85625,7591	84,54141	
17	9011,11239,46136	9047,92190	1 00408,49013	8,95477,84066,3079	8,95654,88432	10:12
	17,38215,02549	17,59645	1,58717	83,69333,4350	84,37982	
18	9028,49454,48685	9065,51835	1 00410,07730	8,95561,53399,7429	8,95739,26414	10:48
	17,38187,52314	17,59701	1,59027	83,53103,7842	84,21886	
19	9045,87642,00999	9083,11536	1 00411,66757	8,95645,06503,5271	8,95823,48300	11:24
	17,38159,96781	17,59757	1,59339	83,36936,4451	84,05852	
20	9063,25801,97780	9100,71293	1 00413,26096	8,95728,43439,9722	8,95907,54152	12: 0
	17,38132,35955	17,59812	1,59649	83,20831,0582	83,89880	
21	9080,63934,33735	9118,31105	1 00414,85745	8,95811,64271,0304	8,95991,44032	12:36
	17,38104,69835	17,59869	1,59960	83,04787,2675	83,73969	
22	9098,02039,03570	9135,90974	1 00416,45705	8,95894,69058,2979	8,96075,18001	13:12
	17,38076,98419	17,59924	1,60271	82,88804,7190	83,58121	
23	9115,40116,01989	9153,50898	1 00418,05976	8,95977,57863,0169	8,96158,76122	13:48
	17,38049,21709	17,59981	1,60583	82,72883,0620	83,42332	
24	9132,78165,23698	9171,10879	1 00419,66559	8,96060,30746,0789	8,96242,18454	14:24
	17,38021,39704	17,60038	1,60893	82,57021,9480	83,26604	
25	9150,16186,63402	9188,70917	1 00421,27452	8,96142,87768,0269	8,96325,45058	15: 0
	17,37993,52406	17,60093	1,61204	82,41221,0314	83,10937	
26	9167,54180,15808	9206,31010	1 00422,88656	8,96225,28989,0583	8,96408,55995	15:36
	17,37965,59813	17,60151	1,61516	82,25479,9694	82,95329	
27	9184,92145,75621	9223,91161	1 00424,50172	8,96307,54469,0277	8,96491,51324	16:12
	17,37937,61926	17,60207	1,61826	82,09798,4214	82,79782	
28	9202,30083,37547	9241,51368	1 00426,11998	8,96389,64267,4491	8,96574,31106	16:48
	17,37909,58745	17,60263	1,62138	81,94176,0496	82,64292	
29	9219,67992,96292	9259,11631	1 00427,74136	8,96471,58443,4987	8,96656,95398	17:24
	17,37881,50270	17,60321	1,62449	81,78612,5187	82,48862	
30	9237,05874,46562	9276,71952	1 00429,36585	8,96553,37056,0174	8,96739,44260	18: 0
	17,37853,36500	17,60378	1,62760	81,63107,4960	82,33491	
31	9254,43727,83062	9294,32330	1 00430,99345	8,96635,00163,5134	8,96821,77751	18:36
	17,37825,17438	17,60434	1,63071	81,47660,6512	82,18177	
32	9271,81553,00500	9311,92764	1 00432,62416	8,96716,47824,1646	8,96903,95928	19:12
	17,37796,93081	17,60492	1,63383	81,32271,6567	82,02921	
33	9289,19349,93581	9329,53256	1 00434,25799	8,96797,80095,8213	8,96985,98849	19:48
	17,37768,63432	17,60550	1,63694	81,16940,1870	81,87724	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
100	99619,46980,91746	11 43005,23028	11 47371,32457	9,99834,42260,1750	11,05804,82177	60: 0
	1,52267,19566	2293,08332	2284,34001	66381,9115	87,21515	
99	99617,94713,72180	11 40712,14696	11 45086,98456	9,99833,75878,2635	11,05717,60662	59:24
	1,52570,64927	2283,97078	2275,22740	66515,2218	87,04302	
98	99616,42143,07253	11 38428,17618	11 42811,75716	9,99833,09363,0417	11,05630,56360	58:48
	1,52874,09825	2274,91259	2266,16914	66648,5362	86,87157	
97	99614,89268,97428	11 36153,26359	11 40545,58802	9,99832,42714,5055	11,05543,69203	58:12
	1,53177,54256	2265,90832	2257,16480	66781,8548	86,70081	
96	99613,36091,43172	11 33887,35527	11 38288,42322	9,99831,75932,6507	11,05456,99122	57:36
	1,53480,98220	2256,95753	2248,21395	66915,1774	86,53073	
95	99611,82610,44952	11 31630,39774	11 36040,20927	9,99831,09017,4733	11,05370,46049	57: 0
	1,53784,41719	2248,05982	2239,31617	67048,5041	86,36133	
94	99610,28826,03233	11 29382,33792	11 33800,89310	9,99830,41968,9692	11,05284,09916	56:24
	1,54087,84747	2239,21476	2230,47103	67181,8350	86,19259	
93	99608,74738,18486	11 27143,12316	11 31570,42207	9,99829,74787,1342	11,05197,90657	55:48
	1,54391,27307	2230,42192	2221,67814	67315,1699	86,02453	
92	99607,20346,91179	11 24912,70124	11 29348,74393	9,99829,07471,9643	11,05111,88204	55:12
	1,54694,69395	2221,68092	2212,93707	67448,5091	85,85714	
91	99605,65652,21784	11 22691,02032	11 27135,80686	9,99828,40023,4552	11,05026,02490	54:36
	1,54998,11014	2212,99133	2204,24741	67581,8523	85,69040	
90	99604,10654,10770	11 20478,02899	11 24931,55945	9,99827,72441,6029	11,04940,33450	54: 0
	1,55301,52160	2204,35276	2195,60877	67715,1997	85,52431	
89	99602,55352,58610	11 18273,67623	11 22735,95068	9,99827,04726,4032	11,04854,81019	53:24
	1,55604,92833	2195,76481	2187,02075	67848,5513	85,35889	
88	99600,99747,65777	11 16077,91142	11 20548,92993	9,99826,36877,8519	11,04769,45130	52:48
	1,55908,33031	2187,22707	2178,48295	67981,9070	85,19411	
87	99599,43839,32746	11 13890,68435	11 18370,44698	9,99825,68895,9449	11,04684,25719	52:12
	1,56211,72755	2178,73917	2169,99498	68115,2669	85,02998	
86	99597,87627,59991	11 11711,94518	11 16200,45200	9,99825,00780,6780	11,04599,22721	51:36
	1,56515,12004	2170,30072	2161,55645	68248,6310	84,86648	
85	99596,31112,47987	11 09541,64446	11 14038,89555	9,99824,32532,0470	11,04514,36073	51: 0
	1,56818,50774	2161,91132	2153,16699	68381,9993	84,70364	
84	99594,74293,97213	11 07379,73314	11 11885,72856	9,99823,64150,0477	11,04429,65709	50:24
	1,57121,89068	2153,57060	2144,82621	68515,3718	84,54141	
83	99593,17172,08145	11 05226,16254	11 09740,90235	9,99822,95634,6759	11,04345,11568	49:48
	1,57425,26883	2145,27820	2136,53373	68648,7484	84,37982	
82	99591,59746,81262	11 03080,88434	11 07604,36862	9,99822,26985,9275	11,04260,73586	49:12
	1,57728,64218	2137,03372	2128,28918	68782,1294	84,21886	
81	99590,02018,17044	11 00943,85062	11 05476,07944	9,99821,58203,7981	11,04176,51700	48:36
	1,58032,01074	2128,83681	2120,09220	68915,5144	84,05852	
80	99588,43986,15970	10 98815,01381	11 03355,98724	9,99820,89288,2837	11,04092,45848	48: 0
	1,58335,37446	2120,68710	2111,94243	69048,9039	83,89880	
79	99586,85650,78524	10 96694,32671	11 01244,04481	9,99820,20239,3798	11,04008,55968	47:24
	1,58638,73338	2112,58422	2103,83947	69182,2974	83,73969	
78	99585,27012,05186	10 94581,74249	10 99140,20534	9,99819,51057,0824	11,03924,81999	46:48
	1,58942,08746	2104,52783	2095,78302	69315,6953	83,58121	
77	99583,68069,96440	10 92477,21466	10 97044,42232	9,99818,81741,3871	11,03841,23878	46:12
	1,59245,43670	2096,51756	2087,77268	69449,0974	83,42332	
76	99582,08824,52770	10 90380,69710	10 94956,64964	9,99818,12292,2897	11,03757,81546	45:36
	1,59548,78108	2088,55307	2079,80811	69582,5037	83,26604	
75	99580,49275,74662	10 88292,14403	10 92876,84153	9,99817,42709,7860	11,03674,54942	45: 0
	1,59852,12061	2080,63399	2071,88897	69715,9145	83,10937	
74	99578,89423,62601	10 86211,51004	10 90804,95256	9,99816,72993,8715	11,03591,44005	44:24
	1,60155,45527	2072,76001	2064,01490	69849,3293	82,95329	
73	99577,29268,17074	10 84138,75003	10 88740,93766	9,99816,03144,5422	11,03508,48676	43:48
	1,60458,78505	2064,93075	2056,18559	69982,7486	82,79782	
72	99575,68809,38569	10 82073,81928	10 86684,75207	9,99815,33161,7936	11,03425,68894	43:12
	1,60762,10994	2057,14589	2048,40066	70116,1721	82,64292	
71	99574,08047,27575	10 80016,67339	10 84636,35141	9,99814,63045,6215	11,03343,04602	42:36
	1,61065,42993	2049,40512	2040,65981	70249,6000	82,48862	
70	99572,46981,84582	10 77967,26827	10 82595,69160	9,99813,92796,0215	11,03260,55740	42: 0
	1,61368,74502	2041,70806	2032,96269	70383,0321	82,33491	
69	99570,85613,10080	10 75925,56021	10 80562,72891	9,99813,22412,9894	11,03178,22249	41:24
	1,61672,05519	2034,05441	2025,30896	70516,4686	82,18177	
68	99569,23941,04561	10 73891,50580	10 78537,41995	9,99812,51896,5208	11,03096,04072	40:48
	1,61975,36044	2026,44385	2017,69833	70649,9094	82,02921	
67	99567,61965,68517	10 71865,06195	10 76519,72162	9,99811,81246,6114	11,03014,01151	40:12
	1,62278,66075	2018,87603	2010,13044	70783,3545	81,87724	

GRAD. 84.

5. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	9289,19349,93581	9329,53256	1 00434,25799	8,96797,80095,8213	8,96985,98849	19:48
	17,37768,63432	17,60550	1,63694	81,16940,1870	81,87724	
34	9306,57118,57013	9347,13806	1 00435,89493	8,96878,97036,0083	8,97067,86573	20:24
	17,37740,28487	17,60606	1,64005	81,01665,9192	81,72582	
35	9323,94858,85500	9364,74412	1 00437,53498	8,96959,98701,9275	8,97149,59155	21: 0
	17,37711,88251	17,60665	1,64316	80,86448,5330	81,57499	
36	9341,32570,73751	9382,35077	1 00439,17814	8,97040,85150,4605	8,97231,16654	21:36
	17,37683,42719	17,60722	1,64628	80,71287,7103	81,42472	
37	9358,70254,16470	9399,95799	1 00440,82442	8,97121,56438,1708	8,97312,59126	22:12
	17,37654,91896	17,60780	1,64939	80,56183,1353	81,27500	
38	9376,07909,08366	9417,56579	1 00442,47381	8,97202,12621,3061	8,97393,86626	22:48
	17,37626,35779	17,60837	1,65251	80,41134,4947	81,12585	
39	9393,45535,44145	9435,17416	1 00444,12632	8,97282,53755,8008	8,97474,99211	23:24
	17,37597,74369	17,60896	1,65562	80,26141,4775	80,97726	
40	9410,83133,18514	9452,78312	1 00445,78194	8,97362,79897,2783	8,97555,96937	24: 0
	17,37569,07666	17,60954	1,65873	80,11203,7748	80,82921	
41	9428,20702,26180	9470,39266	1 00447,44067	8,97442,91101,0531	8,97636,79858	24:36
	17,37540,35670	17,61011	1,66185	79,96321,0804	80,68172	
42	9445,58242,61850	9488,00277	1 00449,10252	8,97522,87422,1335	8,97717,48030	25:12
	17,37511,58380	17,61071	1,66496	79,81493,0898	80,53478	
43	9462,95754,20230	9505,61348	1 00450,76748	8,97602,68915,2233	8,97798,01508	25:48
	17,37482,75799	17,61128	1,66808	79,66719,5014	80,38837	
44	9480,33236,96029	9523,22476	1 00452,43556	8,97682,35634,7247	8,97878,40345	26:24
	17,37453,87925	17,61188	1,67119	79,52000,0152	80,24252	
45	9497,70690,83954	9540,83664	1 00454,10675	8,97761,87634,7399	8,97958,64597	27: 0
	17,37424,94758	17,61246	1,67431	79,37334,3337	80,09719	
46	9515,08115,78712	9558,44910	1 00455,78106	8,97841,24969,0736	8,98038,74316	27:36
	17,37395,96298	17,61304	1,67743	79,22722,1616	79,95241	
47	9532,45511,75010	9576,06214	1 00457,45849	8,97920,47691,2352	8,98118,69557	28:12
	17,37366,92546	17,61364	1,68054	79,08163,2056	79,80815	
48	9549,82878,67556	9593,67578	1 00459,13903	8,97999,55854,4408	8,98198,50372	28:48
	17,37337,83502	17,61422	1,68366	78,93657,1748	79,66443	
49	9567,20216,51058	9611,29000	1 00460,82269	8,98078,49511,6156	8,98278,16815	29:24
	17,37308,69166	17,61482	1,68678	78,79203,7801	79,52123	
50	9584,57525,20224	9628,90482	1 00462,50947	8,98157,28715,3957	8,98357,68938	30: 0
	17,37279,49537	17,61541	1,68989	78,64802,7347	79,37855	
51	9601,94804,69761	9646,52023	1 00464,19936	8,98235,93518,1304	8,98437,06793	30:36
	17,37250,24617	17,61600	1,69301	78,50453,7539	79,23640	
52	9619,32054,94378	9664,13623	1 00465,89237	8,98314,43971,8843	8,98516,30433	31:12
	17,37220,94403	17,61660	1,69612	78,36156,5549	79,09476	
53	9636,69275,88781	9681,75283	1 00467,58849	8,98392,80128,4392	8,98595,39909	31:48
	17,37191,58900	17,61719	1,69925	78,21910,8570	78,95364	
54	9654,06467,47681	9699,37002	1 00469,28774	8,98471,02039,2962	8,98674,35273	32:24
	17,37162,18103	17,61778	1,70236	78,07716,3817	78,81303	
55	9671,43629,65784	9716,98780	1 00470,99010	8,98549,09755,6779	8,98753,16576	33: 0
	17,37132,72015	17,61839	1,70548	77,93572,8523	78,67294	
56	9688,80762,37799	9734,60619	1 00472,69558	8,98627,03328,5302	8,98831,83870	33:36
	17,37103,20636	17,61898	1,70860	77,79479,9941	78,53333	
57	9706,17865,58435	9752,22517	1 00474,40418	8,98704,82808,5243	8,98910,37203	34:12
	17,37073,63964	17,61959	1,71172	77,65437,5345	78,39425	
58	9723,54939,22399	9769,84476	1 00476,11590	8,98782,48246,0588	8,98988,76628	34:48
	17,37044,02002	17,62018	1,71484	77,51445,2028	78,25566	
59	9740,91983,24401	9787,46494	1 00477,83074	8,98859,99691,2616	8,99067,02194	35:24
	17,37014,34748	17,62079	1,71796	77,37502,7302	78,11758	
60	9758,28997,59149	9805,08573	1 00479,54870	8,98937,37193,9918	8,99145,13952	36: 0
	17,36984,62204	17,62139	1,72107	77,23609,8498	77,97998	
61	9775,65982,21353	9822,70712	1 00481,26977	8,99014,60803,8416	8,99223,11950	36:36
	17,36954,84366	17,62199	1,72420	77,09766,2965	77,84287	
62	9793,02937,05719	9840,32911	1 00482,99397	8,99091,70570,1381	8,99300,96237	37:12
	17,36925,01240	17,62260	1,72732	76,95971,8076	77,70627	
63	9810,39862,06959	9857,95171	1 00484,72129	8,99168,66541,9457	8,99378,66864	37:48
	17,36895,12821	17,62321	1,73043	76,82226,1215	77,57015	
64	9827,76757,19780	9875,57492	1 00486,45172	8,99245,48768,0672	8,99456,23879	38:24
	17,36865,19112	17,62381	1,73356	76,68528,9790	77,43452	
65	9845,13622,38892	9893,19873	1 00488,18528	8,99322,17297,0462	8,99533,67331	39: 0
	17,36835,20112	17,62442	1,73668	76,54880,1226	77,29936	
66	9862,50457,59004	9910,82315	1 00489,92196	8,99398,72177,1688	8,99610,97267	39:36
	17,36805,15821	17,62503	1,73980	76,41279,2965	77,16469	

Cente simæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	99567,61965,68517	10 71865,06195	10 76519,72162	9,99811,81246,6114	11,03014,01151	40:12
	1,62278,66075	2018,87603	2010,13044	70783,3545	81,87724	
66	99565,99687,02442	10 69846,18592	10 74509,59118	9,99811,10463,2569	11,02932,13427	39:36
	1,62581,95612	2011,35066	2002,60500	70916,8040	81,72582	
65	99564,37105,06830	10 67834,83526	10 72506,98618	9,99810,39546,4529	11,02850,40845	39: 0
	1,62885,24654	2003,86740	1995,12167	71050,2579	81,57499	
64	99562,74219,82176	10 65830,96786	10 70511,86451	9,99809,68496,1950	11,02768,83346	38:24
	1,63188,53200	1996,42595	1987,68015	71183,7162	81,42472	
63	99561,11031,28976	10 63834,54191	10 68524,18436	9,99808,97312,4788	11,02687,40874	37:48
	1,63491,81248	1989,02599	1980,28012	71317,1787	81,27500	
62	99559,47539,47728	10 61845,51592	10 66543,90424	9,99808,25995,3001	11,02606,13374	37:12
	1,63795,08798	1981,66723	1972,92128	71450,6457	81,12585	
61	99557,83744,38930	10 59863,84869	10 64570,98296	9,99807,54544,6544	11,02525,00789	36:36
	1,64098,35850	1974,34935	1965,60333	71584,1171	80,97726	
60	99556,19646,03080	10 57889,49934	10 62605,37963	9,99806,82960,5373	11,02444,03063	36: 0
	1,64401,62401	1967,07204	1958,32595	71717,5929	80,82921	
59	99554,55244,40679	10 55922,42730	10 60647,05368	9,99806,11242,9444	11,02363,20142	35:24
	1,64704,88453	1959,83502	1951,08886	71851,0730	80,68172	
58	99552,90539,52226	10 53962,59228	10 58695,96482	9,99805,39391,8714	11,02282,51970	34:48
	1,65008,14001	1952,63797	1943,89174	71984,5577	80,53478	
57	99551,25531,38225	10 52009,95431	10 56752,07308	9,99804,67407,3137	11,02201,98492	34:12
	1,65311,39048	1945,48063	1936,73432	72118,0467	80,38837	
56	99549,60219,99177	10 50064,47368	10 54815,33876	9,99803,95289,2670	11,02121,59655	33:36
	1,65614,63591	1938,36268	1929,61630	72251,5401	80,24252	
55	99547,94605,35586	10 48126,11100	10 52885,72246	9,99803,23037,7269	11,02041,35403	33: 0
	1,65917,87629	1931,28383	1922,53738	72385,0380	80,09719	
54	99546,28687,47957	10 46194,82717	10 50963,18508	9,99802,50652,6889	11,01961,25684	32:24
	1,66221,11162	1924,24381	1915,49729	72518,5404	79,95241	
53	99544,62466,36795	10 44270,58336	10 49047,68779	9,99801,78134,1485	11,01881,30443	31:48
	1,66524,34189	1917,24234	1908,49574	72652,0472	79,80815	
52	99542,95942,02606	10 42353,34102	10 47139,19205	9,99801,05482,1013	11,01801,49628	31:12
	1,66827,56708	1910,27912	1901,53245	72785,5585	79,66443	
51	99541,29114,45898	10 40443,06190	10 45237,65960	9,99800,32696,5428	11,01721,83185	30:36
	1,67130,78719	1903,35389	1894,60714	72919,0743	79,52123	
50	99539,61983,67179	10 38539,70801	10 43343,05246	9,99799,59777,4685	11,01642,31062	30: 0
	1,67434,00222	1896,46635	1887,71953	73052,5944	79,37855	
49	99537,94549,66957	10 36643,24166	10 41455,33293	9,99798,86724,8741	11,01562,93207	29:24
	1,67737,21213	1889,61626	1880,86937	73186,1192	79,23640	
48	99536,26812,45744	10 34753,62540	10 39574,46356	9,99798,13538,7549	11,01483,69567	28:48
	1,68040,41695	1882,80332	1874,05635	73319,6485	79,09476	
47	99534,58772,04049	10 32870,82208	10 37700,40721	9,99797,40219,1064	11,01404,60091	28:12
	1,68343,61663	1876,02727	1867,28024	73453,1821	78,95364	
46	99532,90428,42386	10 30994,79481	10 35833,12697	9,99796,66765,9243	11,01325,64727	27:36
	1,68646,81121	1869,28786	1860,54075	73586,7205	78,81303	
45	99531,21781,61265	10 29125,50695	10 33972,58622	9,99795,93179,2038	11,01246,83424	27: 0
	1,68950,00062	1862,58481	1853,83763	73720,2632	78,67294	
44	99529,52831,61203	10 27262,92214	10 32118,74859	9,99795,19458,9406	11,01168,16130	26:24
	1,69253,18491	1855,91787	1847,17060	73853,8105	78,53333	
43	99527,83578,42712	10 25407,00427	10 30271,57799	9,99794,45605,1301	11,01089,62797	25:48
	1,69556,36404	1849,28676	1840,53942	73987,3624	78,39425	
42	99526,14022,06308	10 23557,71751	10 28431,03857	9,99793,71617,7677	11,01011,23372	25:12
	1,69859,53799	1842,69124	1833,94384	74120,9187	78,25566	
41	99524,44162,52509	10 21715,02627	10 26597,09473	9,99792,97496,8490	11,00932,97806	24:36
	1,70162,70678	1836,13106	1827,38357	74254,4798	78,11758	
40	99522,73999,81831	10 19878,89521	10 24769,71116	9,99792,23242,3692	11,00854,86048	24: 0
	1,70465,87038	1829,60595	1820,85840	74388,0453	77,97998	
39	99521,03533,94793	10 18049,28926	10 22948,85276	9,99791,48854,3239	11,00776,88050	23:24
	1,70769,02879	1823,11569	1814,36806	74521,6154	77,84287	
38	99519,32764,91914	10 16226,17357	10 21134,48470	9,99790,74332,7085	11,00699,03763	22:48
	1,71072,18200	1816,66000	1807,91229	74655,1900	77,70627	
37	99517,61692,73714	10 14409,51357	10 19326,57241	9,99789,99677,5185	11,00621,33136	22:12
	1,71375,32999	1810,23866	1801,49087	74788,7694	77,57015	
36	99515,90317,40715	10 12599,27491	10 17525,08154	9,99789,24888,7491	11,00543,76121	21:36
	1,71678,47277	1803,85140	1795,10355	74922,3532	77,43452	
35	99514,18638,93438	10 10795,42351	10 15729,97799	9,99788,49966,3959	11,00466,32669	21: 0
	1,71981,61031	1797,49801	1788,75008	75055,9418	77,29936	
34	99512,46657,32407	10 08997,92550	10 13941,22791	9,99787,74910,4541	11,00389,02733	20:24
	1,72284,74262	1791,17823	1782,43022	75189,5348	77,16469	

GRAD. 84.

5. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	9879,87262,74825	9928,44818	1 00491,66176	8,99475,13456,4653	8,99688,13736	40:12
	17,36775,06240	17,62565	1,74292	76,27726,2469	77,03049	
68	9897,24037,81065	9946,07383	1 00493,40468	8,99551,41182,7122	8,99765,16785	40:48
	17,36744,91368	17,62625	1,74605	76,14220,7216	76,89677	
69	9914,60782,72433	9963,70008	1 00495,15073	8,99627,55403,4338	8,99842,06462	41:24
	17,36714,71206	17,62687	1,74916	76,00762,4702	76,76353	
70	9931,97497,43639	9981,32695	1 00496,89989	8,99703,56165,9040	8,99918,82815	42: 0
	17,36684,45753	17,62748	1,75229	75,87351,2444	76,63075	
71	9949,34181,89392	9998,95443	1 00498,65218	8,99779,43517,1484	8,99995,45890	42:36
	17,36654,15011	17,62810	1,75541	75,73986,7969	76,49845	
72	9966,70836,04403	10016,58253	1 00500,40759	8,99855,17503,9453	9,00071,95735	43:12
	17,36623,78977	17,62871	1,75853	75,60668,8828	76,36660	
73	9984,07459,83380	10034,21124	1 00502,16612	8,99930,78172,8281	9,00148,32395	43:48
	17,36593,37655	17,62933	1,76166	75,47397,2588	76,23522	
74	10001,44053,21035	10051,84057	1 00503,92778	9,00006,25570,0869	9,00224,55917	44:24
	17,36562,91041	17,62995	1,76478	75,34171,6830	76,10430	
75	10018,80616,12076	10069,47052	1 00505,69256	9,00081,59741,7699	9,00300,66347	45: 0
	17,36532,39139	17,63057	1,76790	75,20991,9154	75,97384	
76	10036,17148,51215	10087,10109	1 00507,46046	9,00156,80733,6853	9,00376,63731	45:36
	17,36501,81946	17,63119	1,77103	75,07857,7176	75,84383	
77	10053,53650,33161	10104,73228	1 00509,23149	9,00231,88591,4029	9,00452,48114	46:12
	17,36471,19463	17,63181	1,77415	74,94768,8529	75,71429	
78	10070,90121,52624	10122,36409	1 00511,00564	9,00306,83360,2558	9,00528,19543	46:48
	17,36440,51692	17,63243	1,77728	74,81725,0862	75,58518	
79	10088,26562,04316	10139,99652	1 00512,78292	9,00381,65085,3420	9,00603,78061	47:24
	17,36409,78630	17,63306	1,78040	74,68726,1841	75,45653	
80	10105,62971,82946	10157,62958	1 00514,56332	9,00456,33811,5261	9,00679,23714	48: 0
	17,36379,00280	17,63369	1,78352	74,55771,9145	75,32832	
81	10122,99350,83226	10175,26327	1 00516,34684	9,00530,89583,4406	9,00754,56546	48:36
	17,36348,16639	17,63431	1,78665	74,42862,0475	75,20056	
82	10140,35698,99865	10192,89758	1 00518,13349	9,00605,32445,4881	9,00829,76602	49:12
	17,36317,27710	17,63493	1,78978	74,29996,3541	75,07324	
83	10157,72016,27575	10210,53251	1 00519,92327	9,00679,62441,8422	9,00904,83926	49:48
	17,36286,33491	17,63557	1,79290	74,17174,6074	74,94636	
84	10175,08302,61066	10228,16808	1 00521,71617	9,00753,79616,4496	9,00979,78562	50:24
	17,36255,33984	17,63620	1,79603	74,04396,5816	74,81991	
85	10192,44557,95050	10245,80428	1 00523,51220	9,00827,84013,0312	9,01054,60553	51: 0
	17,36224,29187	17,63682	1,79916	73,91662,0530	74,69391	
86	10209,80782,24237	10263,44110	1 00525,31136	9,00901,75675,0842	9,01129,29944	51:36
	17,36193,19102	17,63746	1,80228	73,78970,7988	74,56833	
87	10227,16975,43339	10281,07856	1 00527,11364	9,00975,54645,8830	9,01203,86777	52:12
	17,36162,03728	17,63809	1,80541	73,66322,5982	74,44319	
88	10244,53137,47067	10298,71665	1 00528,91905	9,01049,20968,4812	9,01278,31096	52:48
	17,36130,83066	17,63873	1,80853	73,53717,2316	74,31847	
89	10261,89268,30133	10316,35538	1 00530,72758	9,01122,74685,7128	9,01352,62943	53:24
	17,36099,57114	17,63936	1,81167	73,41154,4812	74,19418	
90	10279,25367,87247	10333,99474	1 00532,53925	9,01196,15840,1940	9,01426,82361	54: 0
	17,36068,25874	17,64000	1,81479	73,28634,1303	74,07031	
91	10296,61436,13121	10351,63474	1 00534,35404	9,01269,44474,3243	9,01500,89392	54:36
	17,36036,89346	17,64063	1,81792	73,16155,9640	73,94687	
92	10313,97473,02467	10369,27537	1 00536,17196	9,01342,60630,2883	9,01574,84079	55:12
	17,36005,47530	17,64127	1,82104	73,03719,7685	73,82385	
93	10331,33478,49997	10386,91664	1 00537,99300	9,01415,64350,0568	9,01648,66464	55:48
	17,35974,00426	17,64192	1,82418	72,91325,3319	73,70123	
94	10348,69452,50423	10404,55856	1 00539,81718	9,01488,55675,3887	9,01722,36587	56:24
	17,35942,48032	17,64255	1,82731	72,78972,4433	73,57905	
95	10366,05394,98455	10422,20111	1 00541,64449	9,01561,34647,8320	9,01795,94492	57: 0
	17,35910,90352	17,64319	1,83043	72,66660,8934	73,45726	
96	10383,41305,88807	10439,84430	1 00543,47492	9,01634,01308,7254	9,01869,40218	57:36
	17,35879,27384	17,64384	1,83356	72,54390,4745	73,33590	
97	10400,77185,16191	10457,48814	1 00545,30848	9,01706,55699,1999	9,01942,73808	58:12
	17,35847,59127	17,64449	1,83670	72,42160,9797	73,21495	
98	10418,13032,75318	10475,13263	1 00547,14518	9,01778,97860,1796	9,02015,95303	58:48
	17,35815,85584	17,64512	1,83982	72,29972,2041	73,09439	
99	10435,48848,60902	10492,77775	1 00548,98500	9,01851,27832,3837	9,02089,04742	59:24
	17,35784,06751	17,64578	1,84296	72,17823,9441	72,97425	
100	10452,84632,67653	10510,42353	1 00550,82796	9,01923,45656,3278	9,02162,02167	60: 0
	17,35752,22633	17,64642	1,84608	72,05715,9969	72,85450	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	99510,74372,58145	10 07206,74727	10 12158,79769	9,99786,99720,9193	11,00311,86264	19:48
	1,72587,86969	1784,89183	1776,14374	75323,1326	77,03049	
32	99509,01784,71176	10 05421,85544	10 10382,65395	9,99786,24397,7867	11,00234,83215	19:12
	1,72890,99148	1778,63857	1769,89042	75456,7350	76,89677	
31	99507,28893,72028	10 03643,21687	10 08612,76353	9,99785,48941,0517	11,00157,93538	18:36
	1,73194,10802	1772,41823	1763,66999	75590,3420	76,76353	
30	99505,55699,61226	10 01870,79864	10 06849,09354	9,99784,73350,7097	11,00081,17185	18: 0
	1,73497,21928	1766,23057	1757,48226	75723,9536	76,63075	
29	99503,82202,39298	10 00104,56807	10 05091,61128	9,99783,97626,7561	11,00004,54110	17:24
	1,73800,32525	1760,07536	1751,32697	75857,5700	76,49845	
28	99502,08402,06773	9 98344,49271	10 03340,28431	9,99783,21769,1861	10,99928,04265	16:48
	1,74103,42593	1753,95238	1745,20391	75991,1910	76,36660	
27	99500,34298,64180	9 96590,54033	10 01595,08040	9,99782,45777,9951	10,99851,67605	16:12
	1,74406,52131	1747,86140	1739,11286	76124,8166	76,23522	
26	99498,59892,12049	9 94842,67893	9 99855,96754	9,99781,69653,1785	10,99775,44083	15:36
	1,74709,61137	1741,80220	1733,05358	76258,4470	76,10430	
25	99496,85182,50912	9 93100,87673	9 98122,91396	9,99780,93394,7315	10,99699,33653	15: 0
	1,75012,69612	1735,77455	1727,02586	76392,0820	75,97384	
24	99495,10169,81300	9 91365,10218	9 96395,88810	9,99780,17002,6495	10,99623,36269	14:24
	1,75315,77552	1729,77826	1721,02949	76525,7218	75,84383	
23	99493,34854,03748	9 89635,32392	9 94674,85861	9,99779,40476,9277	10,99547,51886	13:48
	1,75618,84960	1723,81307	1715,06422	76659,3662	75,71429	
22	99491,59235,18788	9 87911,51085	9 92959,79439	9,99778,63817,5615	10,99471,80457	13:12
	1,75921,91832	1717,87880	1709,12988	76793,0154	75,58518	
21	99489,83313,26956	9 86193,63205	9 91250,66451	9,99777,87024,5461	10,99396,21939	12:36
	1,76224,98168	1711,97523	1703,22622	76926,6694	75,45653	
20	99488,07088,28788	9 84481,65682	9 89547,43829	9,99777,10097,8767	10,99320,76286	12: 0
	1,76528,03967	1706,10213	1697,35306	77060,3279	75,32832	
19	99486,30560,24821	9 82775,55469	9 87850,08523	9,99776,33037,5488	10,99245,43454	11:24
	1,76831,09229	1700,25932	1691,51015	77193,9914	75,20056	
18	99484,53729,15592	9 81075,29537	9 86158,57508	9,99775,55843,5574	10,99170,23398	10:48
	1,77134,13952	1694,44656	1685,69733	77327,6594	75,07324	
17	99482,76595,01640	9 79380,84881	9 84472,87775	9,99774,78515,8980	10,99095,16074	10:12
	1,77437,18135	1688,66366	1679,91436	77461,3324	74,94636	
16	99480,99157,83505	9 77692,18515	9 82792,96339	9,99774,01054,5656	10,99020,21438	9:36
	1,77740,21779	1682,91044	1674,16104	77595,0100	74,81991	
15	99479,21417,61726	9 76009,27471	9 81118,80235	9,99773,23459,5556	10,98945,39447	9: 0
	1,78043,24879	1677,18664	1668,43718	77728,6925	74,69391	
14	99477,43374,36847	9 74332,08807	9 79450,36517	9,99772,45730,8631	10,98870,70056	8:24
	1,78346,27439	1671,49212	1662,74257	77862,3797	74,56833	
13	99475,65028,09408	9 72660,59595	9 77787,62260	9,99771,67868,4834	10,98796,13223	7:48
	1,78649,29455	1665,82665	1657,07702	77996,0717	74,44319	
12	99473,86378,79953	9 70994,76930	9 76130,54558	9,99770,89872,4117	10,98721,68904	7:12
	1,78952,30926	1660,19002	1651,44032	78129,7685	74,31847	
11	99472,07426,49027	9 69334,57928	9 74479,10526	9,99770,11742,6432	10,98647,37057	6:36
	1,79255,31853	1654,58207	1645,83229	78263,4701	74,19418	
10	99470,28171,17174	9 67679,99721	9 72833,27297	9,99769,33479,1731	10,98573,17639	6: 0
	1,79558,32233	1649,00257	1640,25271	78397,1766	74,07031	
9	99468,48612,84941	9 66030,99464	9 71193,02026	9,99768,55081,9965	10,98499,10608	5:24
	1,79861,32067	1643,45136	1634,70142	78530,8879	73,94687	
8	99466,68751,52874	9 64387,54328	9 69558,31884	9,99767,76551,1086	10,98425,15921	4:48
	1,80164,31352	1637,92823	1629,17821	78664,6040	73,82385	
7	99464,88587,21522	9 62749,61505	9 67929,14063	9,99766,97886,5046	10,98351,33536	4:12
	1,80467,30090	1632,43299	1623,68289	78798,3249	73,70123	
6	99463,08119,91432	9 61117,18206	9 66305,45774	9,99766,19088,1797	10,98277,63413	3:36
	1,80770,28276	1626,96546	1618,21529	78932,0508	73,57905	
5	99461,27349,63156	9 59490,21660	9 64687,24245	9,99765,40156,1289	10,98204,05508	3: 0
	1,81073,25913	1621,52545	1612,77519	79065,7814	73,45726	
4	99459,46276,37243	9 57868,69115	9 63074,46726	9,99764,61090,3475	10,98130,59782	2:24
	1,81376,22997	1616,11278	1607,36245	79199,5169	73,33590	
3	99457,64900,14246	9 56252,57837	9 61467,10481	9,99763,81890,8306	10,98057,26192	1:48
	1,81679,19530	1610,72726	1601,97684	79333,2574	73,21495	
2	99455,83220,94716	9 54641,85111	9 59865,12797	9,99763,02557,5732	10,97984,04697	1:12
	1,81982,15509	1605,36872	1596,61823	79467,0027	73,09439	
1	99454,01238,79207	9 53036,48239	9 58268,50974	9,99762,23090,5705	10,97910,95258	0:36
	1,82285,10934	1600,03697	1591,28639	79600,7528	72,97425	
0	99452,18953,68273	9 51436,44542	9 56677,22335	9,99761,43489,8177	10,97837,97833	0: 0
	1,82588,05802	1594,73183	1585,98117	79734,5080	72,85450	

GRAD. 84.

6. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
0	10452,84632,67653	10510,42353	1 00550,82796	9,01923,45656,3278	9,02162,02167	0: 0
	17,35752,22633	17,64642	1,84608	72,05715,9969	72,85450	
1	10470,20384,90286	10528,06995	1 00552,67404	9,01995,51372,3247	9,02234,87617	0:36
	17,35720,33226	17,64707	1,84922	71,93648,1617	72,73516	
2	10487,56105,23512	10545,71702	1 00554,52326	9,02067,45020,4864	9,02307,61133	1:12
	17,35688,38533	17,64772	1,85234	71,81620,2386	72,61623	
3	10504,91793,62045	10563,36474	1 00556,37560	9,02139,26640,7250	9,02380,22756	1:48
	17,35656,38551	17,64837	1,85548	71,69632,0295	72,49768	
4	10522,27450,00596	10581,01311	1 00558,23108	9,02210,96272,7545	9,02452,72524	2:24
	17,35624,33284	17,64902	1,85861	71,57683,3370	72,37952	
5	10539,63074,33880	10598,66213	1 00560,08969	9,02282,53956,0915	9,02525,10476	3: 0
	17,35592,22728	17,64967	1,86174	71,45773,9653	72,26178	
6	10556,98666,56608	10616,31180	1 00561,95143	9,02353,99730,0568	9,02597,36654	3:36
	17,35560,06886	17,65033	1,86488	71,33903,7202	72,14441	
7	10574,34226,63494	10633,96213	1 00563,81631	9,02425,33633,7770	9,02669,51095	4:12
	17,35527,85758	17,65099	1,86801	71,22072,4082	72,02743	
8	10591,69754,49252	10651,61312	1 00565,68432	9,02496,55706,1852	9,02741,53838	4:48
	17,35495,59342	17,65164	1,87114	71,10279,8375	71,91085	
9	10609,05250,08594	10669,26476	1 00567,55546	9,02567,65986,0227	9,02813,44923	5:24
	17,35463,27639	17,65230	1,87427	70,98525,8172	71,79464	
10	10626,40713,36233	10686,91706	1 00569,42973	9,02638,64511,8399	9,02885,24387	6: 0
	17,35430,90651	17,65295	1,87741	70,86810,1582	71,67882	
11	10643,76144,26884	10704,57001	1 00571,30714	9,02709,51321,9981	9,02956,92269	6:36
	17,35398,48376	17,65362	1,88054	70,75132,6720	71,56339	
12	10661,11542,75260	10722,22363	1 00573,18768	9,02780,26454,6701	9,03028,48608	7:12
	17,35366,00814	17,65427	1,88367	70,63493,1717	71,44833	
13	10678,46908,76074	10739,87790	1 00575,07135	9,02850,89947,8418	9,03099,93441	7:48
	17,35333,47967	17,65494	1,88681	70,51891,4718	71,33366	
14	10695,82242,24041	10757,53284	1 00576,95816	9,02921,41839,3136	9,03171,26807	8:24
	17,35300,89833	17,65560	1,88994	70,40327,3873	71,21935	
15	10713,17543,13874	10775,18844	1 00578,84810	9,02991,82166,7009	9,03242,48742	9: 0
	17,35268,26413	17,65627	1,89308	70,28800,7353	71,10542	
16	10730,52811,40287	10792,84471	1 00580,74118	9,03062,10967,4362	9,03313,59284	9:36
	17,35235,57707	17,65693	1,89622	70,17311,3333	70,99186	
17	10747,88046,97994	10810,50164	1 00582,63740	9,03132,28278,7695	9,03384,58470	10:12
	17,35202,83715	17,65760	1,89935	70,05859,0005	70,87868	
18	10765,23249,81709	10828,15924	1 00584,53675	9,03202,34137,7700	9,03455,46338	10:48
	17,35170,04439	17,65826	1,90248	69,94443,5571	70,76587	
19	10782,58419,86148	10845,81750	1 00586,43923	9,03272,28581,3271	9,03526,22925	11:24
	17,35137,19875	17,65894	1,90562	69,83064,8245	70,65342	
20	10799,93557,06023	10863,47644	1 00588,34485	9,03342,11646,1516	9,03596,88267	12: 0
	17,35104,30027	17,65960	1,90876	69,71722,6250	70,54133	
21	10817,28661,36050	10881,13604	1 00590,25361	9,03411,83368,7766	9,03667,42400	12:36
	17,35071,34892	17,66027	1,91190	69,60416,7824	70,42961	
22	10834,63732,70942	10898,79631	1 00592,16551	9,03481,43785,5590	9,03737,85361	13:12
	17,35038,34474	17,66095	1,91503	69,49147,1215	70,31826	
23	10851,98771,05416	10916,45726	1 00594,08054	9,03550,92932,6805	9,03808,17187	13:48
	17,35005,28769	17,66162	1,91817	69,37913,4682	70,20725	
24	10869,33776,34185	10934,11888	1 00595,99871	9,03620,30846,1487	9,03878,37912	14:24
	17,34972,17780	17,66229	1,92130	69,26715,6495	70,09662	
25	10886,68748,51965	10951,78117	1 00597,92001	9,03689,57561,7982	9,03948,47574	15: 0
	17,34939,01504	17,66297	1,92445	69,15553,4935	69,98634	
26	10904,03687,53469	10969,44414	1 00599,84446	9,03758,73115,2917	9,04018,46208	15:36
	17,34905,79946	17,66364	1,92758	69,04426,8294	69,87640	
27	10921,38593,33415	10987,10778	1 00601,77204	9,03827,77542,1211	9,04088,33848	16:12
	17,34872,53101	17,66432	1,93072	68,93335,4877	69,76684	
28	10938,73465,86516	11004,77210	1 00603,70276	9,03896,70877,6088	9,04158,10532	16:48
	17,34839,20971	17,66500	1,93386	68,82279,2995	69,65761	
29	10956,08305,07487	11022,43710	1 00605,63662	9,03965,53156,9083	9,04227,76293	17:24
	17,34805,83558	17,66568	1,93700	68,71258,0976	69,54873	
30	10973,43110,91045	11040,10278	1 00607,57362	9,04034,24415,0059	9,04297,31166	18: 0
	17,34772,40860	17,66636	1,94014	68,60271,7152	69,44021	
31	10990,77883,31905	11057,76914	1 00609,51376	9,04102,84686,7211	9,04366,75187	18:36
	17,34738,92877	17,66704	1,94327	68,49319,9871	69,33204	
32	11008,12622,24782	11075,43618	1 00611,45703	9,04171,34006,7082	9,04436,08391	19:12
	17,34705,39610	17,66773	1,94642	68,38402,7490	69,22420	
33	11025,47327,64392	11093,10391	1 00613,40345	9,04239,72409,4572	9,04505,30811	19:48
	17,34671,81059	17,66841	1,94956	68,27519,8372	69,11671	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
100	99452,18953,68273	9 51436,44542	9 56677,22335	9,99761,43489,8177	10,97837,97833	60: 0
	1,82588,05802	1594,73183	1585,98117	79734,5080	72,85450	
99	99450,36365,62471	9 49841,71359	9 55091,24218	9,99760,63755,3097	10,97765,12383	59:24
	1,82891,00116	1589,45313	1580,70240	79868,2680	72,73516	
98	99448,53474,62355	9 48252,26046	9 53510,53978	9,99759,83887,0417	10,97692,38867	58:48
	1,83193,93872	1584,20069	1575,44988	80002,0329	72,61623	
97	99446,70280,68483	9 46668,05977	9 51935,08990	9,99759,03885,0088	10,97619,77244	58:12
	1,83496,87070	1578,97435	1570,22345	80135,8028	72,49768	
96	99444,86783,81413	9 45089,08542	9 50364,86645	9,99758,23749,2060	10,97547,27476	57:36
	1,83799,79708	1573,77391	1565,02294	80269,5776	72,37952	
95	99443,02984,01705	9 43515,31151	9 48799,84351	9,99757,43479,6284	10,97474,89524	57: 0
	1,84102,71788	1568,59923	1559,84817	80403,3573	72,26178	
94	99441,18881,29917	9 41946,71228	9 47239,99534	9,99756,63076,2711	10,97402,63346	56:24
	1,84405,63306	1563,45012	1554,69898	80537,1420	72,14441	
93	99439,34475,66611	9 40383,26216	9 45685,29636	9,99755,82539,1291	10,97330,48905	55:48
	1,84708,54263	1558,32641	1549,57519	80670,9316	72,02743	
92	99437,49767,12348	9 38824,93575	9 44135,72117	9,99755,01868,1975	10,97258,46162	55:12
	1,85011,44657	1553,22794	1544,47665	80804,7263	71,91085	
91	99435,64755,67691	9 37271,70781	9 42591,24452	9,99754,21063,4712	10,97186,55077	54:36
	1,85314,34486	1548,15456	1539,40317	80938,5259	71,79464	
90	99433,79441,33205	9 35723,55325	9 41051,84135	9,99753,40124,9453	10,97114,75613	54: 0
	1,85617,23753	1543,10608	1534,35462	81072,3305	71,67882	
89	99431,93824,09452	9 34180,44717	9 39517,48673	9,99752,59052,6148	10,97043,07731	53:24
	1,85920,12453	1538,08235	1529,33080	81206,1401	71,56339	
88	99430,07903,96999	9 32642,36482	9 37988,15593	9,99751,77846,4747	10,96971,51392	52:48
	1,86223,00587	1533,08320	1524,33158	81339,9547	71,44833	
87	99428,21680,96412	9 31109,28162	9 36463,82435	9,99750,96506,5200	10,96900,06559	52:12
	1,86525,88154	1528,10848	1519,35677	81473,7743	71,33366	
86	99426,35155,08258	9 29581,17314	9 34944,46758	9,99750,15032,7457	10,96828,73193	51:36
	1,86828,75153	1523,15803	1514,40625	81607,5989	71,21935	
85	99424,48326,33105	9 28058,01511	9 33430,06133	9,99749,33425,1468	10,96757,51258	51: 0
	1,87131,61582	1518,23169	1509,47981	81741,4285	71,10542	
84	99422,61194,71523	9 26539,78342	9 31920,58152	9,99748,51683,7183	10,96686,40716	50:24
	1,87434,47441	1513,32930	1504,57735	81875,2633	70,99186	
83	99420,73760,24082	9 25026,45412	9 30416,00417	9,99747,69808,4550	10,96615,41530	49:48
	1,87737,32730	1508,45071	1499,69867	82009,1030	70,87868	
82	99418,86022,91352	9 23518,00341	9 28916,30550	9,99746,87799,3520	10,96544,53662	49:12
	1,88040,17446	1503,59577	1494,84365	82142,9478	70,76587	
81	99416,97982,73906	9 22014,40764	9 27421,46185	9,99746,05656,4042	10,96473,77075	48:36
	1,88343,01591	1498,76431	1490,01211	82276,7976	70,65342	
80	99415,09639,72315	9 20515,64333	9 25931,44974	9,99745,23379,6066	10,96403,11733	48: 0
	1,88645,85160	1493,95619	1485,20391	82410,6526	70,54133	
79	99413,20993,87155	9 19021,68714	9 24446,24583	9,99744,40968,9540	10,96332,57600	47:24
	1,88948,68156	1489,17128	1480,41891	82544,5126	70,42961	
78	99411,32045,18999	9 17532,51586	9 22965,82692	9,99743,58424,4414	10,96262,14639	46:48
	1,89251,50575	1484,40939	1475,65694	82678,3777	70,31826	
77	99409,42793,68424	9 16048,10647	9 21490,16998	9,99742,75746,0637	10,96191,82813	46:12
	1,89554,32419	1479,67040	1470,91787	82812,2479	70,20725	
76	99407,53239,36005	9 14568,43607	9 20019,25211	9,99741,92933,8158	10,96121,62088	45:36
	1,89857,13685	1474,95417	1466,20155	82946,1232	70,09662	
75	99405,63382,22320	9 13093,48190	9 18553,05056	9,99741,09987,6926	10,96051,52426	45: 0
	1,90159,94373	1470,26053	1461,50783	83080,0036	69,98634	
74	99403,73222,27947	9 11623,22137	9 17091,54273	9,99740,26907,6890	10,95981,53792	44:24
	1,90462,74481	1465,58934	1456,83656	83213,8892	69,87640	
73	99401,82759,53466	9 10157,63203	9 15634,70617	9,99739,43693,7998	10,95911,66152	43:48
	1,90765,54009	1460,94049	1452,18762	83347,7798	69,76684	
72	99399,91993,99457	9 08696,69154	9 14182,51855	9,99738,60346,0200	10,95841,89468	43:12
	1,91068,32956	1456,31379	1447,56084	83481,6756	69,65761	
71	99398,00925,66501	9 07240,37775	9 12734,95771	9,99737,76864,3444	10,95772,23707	42:36
	1,91371,11321	1451,70913	1442,95610	83615,5766	69,54873	
70	99396,09554,55180	9 05788,66862	9 11292,00161	9,99736,93248,7678	10,95702,68834	42: 0
	1,91673,89104	1447,12636	1438,37324	83749,4827	69,44021	
69	99394,17880,66076	9 04341,54226	9 09853,62837	9,99736,09499,2851	10,95633,24813	41:24
	1,91976,66301	1442,56535	1433,81215	83883,3939	69,33204	
68	99392,25903,99775	9 02898,97691	9 08419,81622	9,99735,25615,8912	10,95563,91609	40:48
	1,92279,42915	1438,02595	1429,27266	84017,3104	69,22420	
67	99390,33624,56860	9 01460,95096	9 06990,54356	9,99734,41598,5808	10,95494,69189	40:12
	1,92582,18943	1433,50803	1424,75466	84151,2321	69,11671	

GRAD. 83.

6. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	11025,47327,64392	11093,10391	1 00613,40345	9,04239,72409,4572	9,04505,30811	19:48
	17,34671,81059	17,66841	1,94956	68,27519,8372	69,11671	
34	11042,81999,45451	11110,77232	1 00615,35301	9,04307,99929,2944	9,04574,42482	20:24
	17,34638,17223	17,66909	1,95270	68,16671,0899	69,00956	
35	11060,16637,62674	11128,44141	1 00617,30571	9,04376,16600,3843	9,04643,43438	21: 0
	17,34604,48105	17,66979	1,95584	68,05856,3453	68,90276	
36	11077,51242,10779	11146,11120	1 00619,26155	9,04444,22456,7296	9,04712,33714	21:36
	17,34570,73701	17,67046	1,95898	67,95075,4436	68,79628	
37	11094,85812,84480	11163,78166	1 00621,22053	9,04512,17532,1732	9,04781,13342	22:12
	17,34536,94014	17,67116	1,96212	67,84328,2252	68,69015	
38	11112,20349,78494	11181,45282	1 00623,18265	9,04580,01860,3984	9,04849,82357	22:48
	17,34503,09043	17,67185	1,96527	67,73614,5320	68,58436	
39	11129,54852,87537	11199,12467	1 00625,14792	9,04647,75474,9304	9,04918,40793	23:24
	17,34469,18788	17,67254	1,96840	67,62934,2067	68,47889	
40	11146,89322,06325	11216,79721	1 00627,11632	9,04715,38409,1371	9,04986,88682	24: 0
	17,34435,23251	17,67323	1,97155	67,52287,0929	68,37376	
41	11164,23757,29576	11234,47044	1 00629,08787	9,04782,90696,2300	9,05055,26058	24:36
	17,34401,22430	17,67392	1,97469	67,41673,0356	68,26896	
42	11181,58158,52006	11252,14436	1 00631,06256	9,04850,32369,2656	9,05123,52954	25:12
	17,34367,16325	17,67462	1,97784	67,31091,8800	68,16448	
43	11198,92525,68331	11269,81898	1 00633,04040	9,04917,63461,1456	9,05191,69402	25:48
	17,34333,04938	17,67531	1,98098	67,20543,4730	68,06034	
44	11216,26858,73269	11287,49429	1 00635,02138	9,04984,84004,6186	9,05259,75436	26:24
	17,34298,88267	17,67601	1,98412	67,10027,6622	67,95653	
45	11233,61157,61536	11305,17030	1 00637,00550	9,05051,94032,2808	9,05327,71089	27: 0
	17,34264,66312	17,67671	1,98726	66,99544,2959	67,85303	
46	11250,95422,27848	11322,84701	1 00638,99276	9,05118,93576,5767	9,05395,56392	27:36
	17,34230,39077	17,67740	1,99041	66,89093,2236	67,74986	
47	11268,29652,66925	11340,52441	1 00640,98317	9,05185,82669,8003	9,05463,31378	28:12
	17,34196,06557	17,67811	1,99356	66,78674,2959	67,64701	
48	11285,63848,73482	11358,20252	1 00642,97673	9,05252,61344,0962	9,05530,96079	28:48
	17,34161,68755	17,67880	1,99670	66,68287,3637	67,54448	
49	11302,98010,42237	11375,88132	1 00644,97343	9,05319,29631,4599	9,05598,50527	29:24
	17,34127,25670	17,67951	1,99984	66,57932,2796	67,44227	
50	11320,32137,67907	11393,56083	1 00646,97327	9,05385,87563,7395	9,05665,94754	30: 0
	17,34092,77303	17,68021	2,00299	66,47608,8964	67,34037	
51	11337,66230,45210	11411,24104	1 00648,97626	9,05452,35172,6359	9,05733,28791	30:36
	17,34058,23654	17,68092	2,00614	66,37317,0684	67,23880	
52	11355,00288,68864	11428,92196	1 00650,98240	9,05518,72489,7043	9,05800,52671	31:12
	17,34023,64722	17,68162	2,00928	66,27056,6503	67,13753	
53	11372,34312,33586	11446,60358	1 00652,99168	9,05584,99546,3546	9,05867,66424	31:48
	17,33989,00508	17,68232	2,01242	66,16827,4980	67,03659	
54	11389,68301,34094	11464,28590	1 00655,00410	9,05651,16373,8526	9,05934,70083	32:24
	17,33954,31012	17,68304	2,01558	66,06629,4682	66,93594	
55	11407,02255,65106	11481,96894	1 00657,01968	9,05717,23003,3208	9,06001,63677	33: 0
	17,33919,56235	17,68374	2,01872	65,96462,4185	66,83561	
56	11424,36175,21341	11499,65268	1 00659,03840	9,05783,19465,7393	9,06068,47238	33:36
	17,33884,76175	17,68446	2,02187	65,86326,2071	66,73559	
57	11441,70059,97516	11517,33714	1 00661,06027	9,05849,05791,9464	9,06135,20797	34:12
	17,33849,90833	17,68516	2,02502	65,76220,6935	66,63588	
58	11459,03909,88349	11535,02230	1 00663,08529	9,05914,82012,6399	9,06201,84385	34:48
	17,33815,00211	17,68588	2,02816	65,66145,7379	66,53647	
59	11476,37724,88560	11552,70818	1 00665,11345	9,05980,48158,3778	9,06268,38032	35:24
	17,33780,04307	17,68659	2,03131	65,56101,2012	66,43736	
60	11493,71504,92867	11570,39477	1 00667,14476	9,06046,04259,5790	9,06334,81768	36: 0
	17,33745,03120	17,68730	2,03447	65,46086,9451	66,33856	
61	11511,05249,95987	11588,08207	1 00669,17923	9,06111,50346,5241	9,06401,15624	36:36
	17,33709,96654	17,68802	2,03761	65,36102,8325	66,24006	
62	11528,38959,92641	11605,77009	1 00671,21684	9,06176,86449,3566	9,06467,39630	37:12
	17,33674,84905	17,68874	2,04076	65,26148,7267	66,14186	
63	11545,72634,77546	11623,45883	1 00673,25760	9,06242,12598,0833	9,06533,53816	37:48
	17,33639,67876	17,68945	2,04391	65,16224,4922	66,04396	
64	11563,06274,45422	11641,14828	1 00675,30151	9,06307,28822,5755	9,06599,58212	38:24
	17,33604,45565	17,69017	2,04706	65,06329,9940	65,94635	
65	11580,39878,90987	11658,83845	1 00677,34857	9,06372,35152,5695	9,06665,52847	39: 0
	17,33569,17974	17,69090	2,05020	64,96465,0982	65,84905	
66	11597,73448,08961	11676,52935	1 00679,39877	9,06437,31617,6677	9,06731,37752	39:36
	17,33533,85103	17,69161	2,05336	64,86629,6714	65,75203	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	99390,33624,56860	9 01460,95096	9 06990,54356	9,99734,41598,5808	10,95494,69189	40:12
	1,92582,18943	1433,50803	1424,75466	84151,2321	69,11671	
66	99388,41042,37917	9 00027,44293	9 05565,78890	9,99733,57447,3487	10,95425,57518	39:36
	1,92884,94383	1429,01147	1420,25801	84285,1588	69,00956	
65	99386,48157,43534	8 98598,43146	9 04145,53089	9,99732,73162,1899	10,95356,56562	39: 0
	1,93187,69237	1424,53610	1415,78256	84419,0909	68,90276	
64	99384,54969,74297	8 97173,89536	9 02729,74833	9,99731,88743,0990	10,95287,66286	38:24
	1,93490,43503	1420,08181	1411,32819	84553,0281	68,79628	
63	99382,61479,30794	8 95753,81355	9 01318,42014	9,99731,04190,0709	10,95218,86658	37:48
	1,93793,17177	1415,64848	1406,89477	84686,9706	68,69015	
62	99380,67686,13617	8 94338,16507	8 99911,52537	9,99730,19503,1003	10,95150,17643	37:12
	1,94095,90263	1411,23595	1402,48215	84820,9182	68,58436	
61	99378,73590,23354	8 92926,92912	8 98509,04322	9,99729,34682,1821	10,95081,59207	36:36
	1,94398,62758	1406,84411	1398,09023	84954,8711	68,47889	
60	99376,79191,60596	8 91520,08501	8 97110,95299	9,99728,49727,3110	10,95013,11318	36: 0
	1,94701,34659	1402,47283	1393,71886	85088,8293	68,37376	
59	99374,84490,25937	8 90117,61218	8 95717,23413	9,99727,64638,4817	10,94944,73942	35:24
	1,95004,05967	1398,12196	1389,36792	85222,7926	68,26896	
58	99372,89486,19970	8 88719,49022	8 94327,86621	9,99726,79415,6891	10,94876,47046	34:48
	1,95306,76683	1393,79141	1385,03726	85356,7613	68,16448	
57	99370,94179,43287	8 87325,69881	8 92942,82895	9,99725,94058,9278	10,94808,30598	34:12
	1,95609,46802	1389,48102	1380,72680	85490,7352	68,06034	
56	99368,98569,96485	8 85936,21779	8 91562,10215	9,99725,08568,1926	10,94740,24564	33:36
	1,95912,16326	1385,19068	1376,43637	85624,7144	67,95653	
55	99367,02657,80159	8 84551,02711	8 90185,66578	9,99724,22943,4782	10,94672,28911	33: 0
	1,96214,85254	1380,92027	1372,16588	85758,6988	67,85303	
54	99365,06442,94905	8 83170,10684	8 88813,49990	9,99723,37184,7794	10,94604,43608	32:24
	1,96517,53583	1376,66966	1367,91517	85892,6887	67,74986	
53	99363,09925,41322	8 81793,43718	8 87445,58473	9,99722,51292,0907	10,94536,68622	31:48
	1,96820,21314	1372,43873	1363,68416	86026,6836	67,64701	
52	99361,13105,20008	8 80420,99845	8 86081,90057	9,99721,65265,4071	10,94469,03921	31:12
	1,97122,88445	1368,22735	1359,47270	86160,6841	67,54448	
51	99359,15982,31563	8 79052,77110	8 84722,42787	9,99720,79104,7230	10,94401,49473	30:36
	1,97425,54976	1364,03541	1355,28067	86294,6897	67,44227	
50	99357,18556,76587	8 77688,73569	8 83367,14720	9,99719,92810,0333	10,94334,05246	30: 0
	1,97728,20905	1359,86280	1351,10797	86428,7008	67,34037	
49	99355,20828,55682	8 76328,87289	8 82016,03923	9,99719,06381,3325	10,94266,71209	29:24
	1,98030,86232	1355,70937	1346,95446	86562,7170	67,23880	
48	99353,22797,69450	8 74973,16352	8 80669,08477	9,99718,19818,6155	10,94199,47329	28:48
	1,98333,50956	1351,57504	1342,82003	86696,7388	67,13753	
47	99351,24464,18494	8 73621,58848	8 79326,26474	9,99717,33121,8767	10,94132,33576	28:12
	1,98636,15076	1347,45966	1338,70457	86830,7658	67,03659	
46	99349,25828,03418	8 72274,12882	8 77987,56017	9,99716,46291,1109	10,94065,29917	27:36
	1,98938,78591	1343,36314	1334,60797	86964,7982	66,93594	
45	99347,26889,24827	8 70930,76568	8 76652,95220	9,99715,59326,3127	10,93998,36323	27: 0
	1,99241,41499	1339,28535	1330,53008	87098,8360	66,83561	
44	99345,27647,83328	8 69591,48033	8 75322,42212	9,99714,72227,4767	10,93931,52762	26:24
	1,99544,03801	1335,22618	1326,47083	87232,8792	66,73559	
43	99343,28103,79527	8 68256,25415	8 73995,95129	9,99713,84994,5975	10,93864,79203	25:48
	1,99846,65495	1331,18552	1322,43009	87366,9276	66,63588	
42	99341,28257,14032	8 66925,06863	8 72673,52120	9,99712,97627,6699	10,93798,15615	25:12
	2,00149,26580	1327,16326	1318,40772	87500,9816	66,53647	
41	99339,28107,87452	8 65597,90537	8 71355,11348	9,99712,10126,6883	10,93731,61968	24:36
	2,00451,87056	1323,15927	1314,40366	87635,0409	66,43736	
40	99337,27656,00396	8 64274,74610	8 70040,70982	9,99711,22491,6474	10,93665,18232	24: 0
	2,00754,46920	1319,17346	1310,41775	87769,1056	66,33856	
39	99335,26901,53476	8 62955,57264	8 68730,29207	9,99710,34722,5418	10,93598,84376	23:24
	2,01057,06173	1315,20571	1306,44992	87903,1758	66,24006	
38	99333,25844,47303	8 61640,36693	8 67423,84215	9,99709,46819,3660	10,93532,60370	22:48
	2,01359,64814	1311,25591	1302,50004	88037,2514	66,14186	
37	99331,24484,82489	8 60329,11102	8 66121,34211	9,99708,58782,1146	10,93466,46184	22:12
	2,01662,22842	1307,32397	1298,56800	88171,3324	66,04396	
36	99329,22822,59647	8 59021,78705	8 64822,77411	9,99707,70610,7822	10,93400,41788	21:36
	2,01964,80255	1303,40976	1294,65370	88305,4188	65,94635	
35	99327,20857,79392	8 57718,37729	8 63528,12041	9,99706,82305,3634	10,93334,47153	21: 0
	2,02267,37053	1299,51318	1290,75703	88439,5107	65,84905	
34	99325,18590,42339	8 56418,86411	8 62237,36338	9,99705,93865,8527	10,93268,62248	20:24
	2,02569,93234	1295,63412	1286,87789	88573,6082	65,75203	

GRAD. 83.

6. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	11615,06981,94064	11694,22096	1 00681,45213	9,06502,18247,3391	9,06797,12955	40:12
	17,33498,46949	17,69234	2,05651	64,76823,5812	65,65531	
68	11632,40480,41013	11711,91330	1 00683,50864	9,06566,95070,9203	9,06862,78486	40:48
	17,33463,03517	17,69306	2,05967	64,67046,6960	65,55889	
69	11649,73943,44530	11729,60636	1 00685,56831	9,06631,62117,6163	9,06928,34375	41:24
	17,33427,54803	17,69378	2,06281	64,57298,8849	65,46275	
70	11667,07370,99333	11747,30014	1 00687,63112	9,06696,19416,5012	9,06993,80650	42: 0
	17,33392,00809	17,69451	2,06597	64,47580,0177	65,36690	
71	11684,40763,00142	11764,99465	1 00689,69709	9,06760,66996,5189	9,07059,17340	42:36
	17,33356,41535	17,69523	2,06911	64,37889,9653	65,27134	
72	11701,74119,41677	11782,68988	1 00691,76620	9,06825,04886,4842	9,07124,44474	43:12
	17,33320,76981	17,69597	2,07227	64,28228,5990	65,17607	
73	11719,07440,18658	11800,38585	1 00693,83847	9,06889,33115,0832	9,07189,62081	43:48
	17,33285,07147	17,69669	2,07542	64,18595,7910	65,08108	
74	11736,40725,25805	11818,08254	1 00695,91389	9,06953,51710,8742	9,07254,70189	44:24
	17,33249,32033	17,69742	2,07858	64,08991,4145	64,98638	
75	11753,73974,57838	11835,77996	1 00697,99247	9,07017,60702,2887	9,07319,68827	45: 0
	17,33213,51638	17,69816	2,08173	63,99415,3430	64,89196	
76	11771,07188,09476	11853,47812	1 00700,07420	9,07081,60117,6317	9,07384,58023	45:36
	17,33177,65966	17,69888	2,08488	63,89867,4510	64,79782	
77	11788,40365,75442	11871,17700	1 00702,15908	9,07145,49985,0827	9,07449,37805	46:12
	17,33141,75012	17,69962	2,08804	63,80347,6138	64,70397	
78	11805,73507,50454	11888,87662	1 00704,24712	9,07209,30332,6965	9,07514,08202	46:48
	17,33105,78779	17,70036	2,09119	63,70855,7074	64,61039	
79	11823,06613,29233	11906,57698	1 00706,33831	9,07273,01188,4039	9,07578,69241	47:24
	17,33069,77268	17,70109	2,09434	63,61391,6083	64,51709	
80	11840,39683,06501	11924,27807	1 00708,43265	9,07336,62580,0122	9,07643,20950	48: 0
	17,33033,70476	17,70182	2,09750	63,51955,1941	64,42407	
81	11857,72716,76977	11941,97989	1 00710,53015	9,07400,14535,2063	9,07707,63357	48:36
	17,32997,58407	17,70257	2,10066	63,42546,3427	64,33132	
82	11875,05714,35384	11959,68246	1 00712,63081	9,07463,57081,5490	9,07771,96489	49:12
	17,32961,41057	17,70330	2,10381	63,33164,9332	64,23885	
83	11892,38675,76441	11977,38576	1 00714,73462	9,07526,90246,4822	9,07836,20374	49:48
	17,32925,18429	17,70405	2,10697	63,23810,8450	64,14665	
84	11909,71600,94870	11995,08981	1 00716,84159	9,07590,14057,3272	9,07900,35039	50:24
	17,32888,90522	17,70478	2,11012	63,14483,9584	64,05472	
85	11927,04489,85392	12012,79459	1 00718,95171	9,07653,28541,2856	9,07964,40511	51: 0
	17,32852,57336	17,70553	2,11328	63,05184,1543	63,96307	
86	11944,37342,42728	12030,50012	1 00721,06499	9,07716,33725,4399	9,08028,36818	51:36
	17,32816,18872	17,70627	2,11644	62,95911,3145	63,87168	
87	11961,70158,61600	12048,20639	1 00723,18143	9,07779,29636,7544	9,08092,23986	52:12
	17,32779,75130	17,70702	2,11959	62,86665,3210	63,78056	
88	11979,02938,36730	12065,91341	1 00725,30102	9,07842,16302,0754	9,08156,02042	52:48
	17,32743,26108	17,70776	2,12276	62,77446,0573	63,68971	
89	11996,35681,62838	12083,62117	1 00727,42378	9,07904,93748,1327	9,08219,71013	53:24
	17,32706,71809	17,70851	2,12591	62,68253,4067	63,59913	
90	12013,68388,34647	12101,32968	1 00729,54969	9,07967,62001,5394	9,08283,30926	54: 0
	17,32670,12232	17,70925	2,12906	62,59087,2538	63,50881	
91	12031,01058,46879	12119,03893	1 00731,67875	9,08030,21088,7932	9,08346,81807	54:36
	17,32633,47376	17,71001	2,13223	62,49947,4834	63,41875	
92	12048,33691,94255	12136,74894	1 00733,81098	9,08092,71036,2766	9,08410,23682	55:12
	17,32596,77243	17,71075	2,13539	62,40833,9815	63,32896	
93	12065,66288,71498	12154,45969	1 00735,94637	9,08155,11870,2581	9,08473,56578	55:48
	17,32560,01832	17,71151	2,13854	62,31746,6343	63,23943	
94	12082,98848,73330	12172,17120	1 00738,08491	9,08217,43616,8924	9,08536,80521	56:24
	17,32523,21144	17,71226	2,14171	62,22685,3288	63,15016	
95	12100,31371,94474	12189,88346	1 00740,22662	9,08279,66302,2212	9,08599,95537	57: 0
	17,32486,35177	17,71302	2,14486	62,13649,9528	63,06115	
96	12117,63858,29651	12207,59648	1 00742,37148	9,08341,79952,1740	9,08663,01652	57:36
	17,32449,43933	17,71376	2,14803	62,04640,3944	62,97239	
97	12134,96307,73584	12225,31024	1 00744,51951	9,08403,84592,5684	9,08725,98891	58:12
	17,32412,47412	17,71453	2,15118	61,95656,5427	62,88390	
98	12152,28720,20996	12243,02477	1 00746,67069	9,08465,80249,1111	9,08788,87281	58:48
	17,32375,45613	17,71528	2,15435	61,86698,2873	62,79566	
99	12169,61095,66609	12260,74005	1 00748,82504	9,08527,66947,3984	9,08851,66847	59:24
	17,32338,38538	17,71604	2,15751	61,77765,5184	62,70768	
100	12186,93434,05147	12278,45609	1 00750,98255	9,08589,44712,9168	9,08914,37615	60: 0
	17,32301,26186	17,71680	2,16067	61,68858,1268	62,61994	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	99323,16020,49105	8 55123,22999	8 60950,48549	9,99705,05292,2445	10,93202,87045	19:48
	2,02872,48799	1291,77250	1283,01617	88707,7110	65,65531	
32	99321,13148,00306	8 53831,45749	8 59667,46932	9,99704,16584,5335	10,93137,21514	19:12
	2,03175,03746	1287,92818	1279,17177	88841,8193	65,55889	
31	99319,09972,96560	8 52543,52931	8 58388,29755	9,99703,27742,7142	10,93071,65625	18:36
	2,03477,58074	1284,10108	1275,34458	88975,9331	65,46275	
30	99317,06495,38486	8 51259,42823	8 57112,95297	9,99702,38766,7811	10,93006,19350	18: 0
	2,03780,11782	1280,29110	1271,53450	89110,0524	65,36690	
29	99315,02715,26704	8 49979,13713	8 55841,41847	9,99701,49656,7287	10,92940,82660	17:24
	2,04082,64869	1276,49811	1267,74144	89244,1772	65,27134	
28	99312,98632,61835	8 48702,63902	8 54573,67703	9,99700,60412,5515	10,92875,55526	16:48
	2,04385,17334	1272,72204	1263,96527	89378,3075	65,17607	
27	99310,94247,44501	8 47429,91698	8 53309,71176	9,99699,71034,2440	10,92810,37919	16:12
	2,04687,69178	1268,96278	1260,20591	89512,4434	65,08108	
26	99308,89559,75323	8 46160,95420	8 52049,50585	9,99698,81521,8006	10,92745,29811	15:36
	2,04990,20397	1265,22022	1256,46327	89646,5848	64,98638	
25	99306,84569,54926	8 44895,73398	8 50793,04258	9,99697,91875,2158	10,92680,31173	15: 0
	2,05292,70992	1261,49427	1252,73723	89780,7317	64,89196	
24	99304,79276,83934	8 43634,23971	8 49540,30535	9,99697,02094,4841	10,92615,41977	14:24
	2,05595,20961	1257,78484	1249,02771	89914,8841	64,79782	
23	99302,73681,62973	8 42376,45487	8 48291,27764	9,99696,12179,6000	10,92550,62195	13:48
	2,05897,70305	1254,09181	1245,33459	90049,0421	64,70397	
22	99300,67783,92668	8 41122,36306	8 47045,94305	9,99695,22130,5579	10,92485,91798	13:12
	2,06200,19022	1250,41512	1241,65780	90183,2057	64,61039	
21	99298,61583,73646	8 39871,94794	8 45804,28525	9,99694,31947,3522	10,92421,30759	12:36
	2,06502,67109	1246,75462	1237,99723	90317,3749	64,51709	
20	99296,55081,06537	8 38625,19332	8 44566,28802	9,99693,41629,9773	10,92356,79050	12: 0
	2,06805,14568	1243,11027	1234,35277	90451,5496	64,42407	
19	99294,48275,91969	8 37382,08305	8 43331,93525	9,99692,51178,4277	10,92292,36643	11:24
	2,07107,61398	1239,48194	1230,72436	90585,7299	64,33132	
18	99292,41168,30571	8 36142,60111	8 42101,21089	9,99691,60592,6978	10,92228,03511	10:48
	2,07410,07595	1235,86955	1227,11187	90719,9158	64,23885	
17	99290,33758,22976	8 34906,73156	8 40874,09902	9,99690,69872,7820	10,92163,79626	10:12
	2,07712,53162	1232,27301	1223,51524	90854,1073	64,14665	
16	99288,26045,69814	8 33674,45855	8 39650,58378	9,99689,79018,6747	10,92099,64961	9:36
	2,08014,98096	1228,69221	1219,93436	90988,3045	64,05472	
15	99286,18030,71718	8 32445,76634	8 38430,64942	9,99688,88030,3702	10,92035,59489	9: 0
	2,08317,42396	1225,12708	1216,36912	91122,5072	63,96307	
14	99284,09713,29322	8 31220,63926	8 37214,28030	9,99687,96907,8630	10,91971,63182	8:24
	2,08619,86061	1221,57751	1212,81947	91256,7157	63,87168	
13	99282,01093,43261	8 29999,06175	8 36001,46083	9,99687,05651,1473	10,91907,76014	7:48
	2,08922,29090	1218,04343	1209,28529	91390,9296	63,78056	
12	99279,92171,14171	8 28781,01832	8 34792,17554	9,99686,14260,2177	10,91843,97958	7:12
	2,09224,71485	1214,52472	1205,76650	91525,1494	63,68971	
11	99277,82946,42686	8 27566,49360	8 33586,40904	9,99685,22735,0683	10,91780,28987	6:36
	2,09527,13240	1211,02132	1202,26301	91659,3746	63,59913	
10	99275,73419,29446	8 26355,47228	8 32384,14603	9,99684,31075,6937	10,91716,69074	6: 0
	2,09829,54359	1207,53314	1198,77473	91793,6057	63,50881	
9	99273,63589,75087	8 25147,93914	8 31185,37130	9,99683,39282,0880	10,91653,18193	5:24
	2,10131,94837	1204,06006	1195,30156	91927,8423	63,41875	
8	99271,53457,80250	8 23943,87908	8 29990,06974	9,99682,47354,2457	10,91589,76318	4:48
	2,10434,34676	1200,60204	1191,84344	92062,0848	63,32896	
7	99269,43023,45574	8 22743,27704	8 28798,22630	9,99681,55292,1609	10,91526,43422	4:12
	2,10736,73874	1197,15895	1188,40026	92196,3327	63,23943	
6	99267,32286,71700	8 21546,11809	8 27609,82604	9,99680,63095,8282	10,91463,19479	3:36
	2,11039,12429	1193,73073	1184,97195	92330,5865	63,15016	
5	99265,21247,59271	8 20352,38736	8 26424,85409	9,99679,70765,2417	10,91400,04463	3: 0
	2,11341,50342	1190,31728	1181,55842	92464,8460	63,06115	
4	99263,09906,08929	8 19162,07008	8 25243,29567	9,99678,78300,3957	10,91336,98348	2:24
	2,11643,87611	1186,91853	1178,15956	92599,1111	62,97239	
3	99260,98262,21318	8 17975,15155	8 24065,13611	9,99677,85701,2846	10,91274,01109	1:48
	2,11946,24236	1183,53439	1174,77533	92733,3821	62,88390	
2	99258,86315,97082	8 16791,61716	8 22890,36078	9,99676,92967,9025	10,91211,12719	1:12
	2,12248,60214	1180,16477	1171,40562	92867,6587	62,79566	
1	99256,74067,36868	8 15611,45239	8 21718,95516	9,99676,00100,2438	10,91148,33153	0:36
	2,12550,95546	1176,80959	1168,05035	93001,9411	62,70768	
0	99254,61516,41322	8 14434,64280	8 20550,90481	9,99675,07098,3027	10,91085,62385	0: 0
	2,12853,30231	1173,46878	1164,70943	93136,2292	62,61994	

GRAD. 83.

7. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
0	12186,93434,05147	12278,45609	1 00750,98255	9,08589,44712,9168	9,08914,37615	0: 0
	17,32301,26186	17,71680	2,16067	61,68858,1268	62,61994	
1	12204,25735,31333	12296,17289	1 00753,14322	9,08651,13571,0436	9,08976,99609	0:36
	17,32264,08556	17,71756	2,16383	61,59976,0041	62,53246	
2	12221,57999,39889	12313,89045	1 00755,30705	9,08712,73547,0477	9,09039,52855	1:12
	17,32226,85651	17,71832	2,16699	61,51119,0422	62,44524	
3	12238,90226,25540	12331,60877	1 00757,47404	9,08774,24666,0899	9,09101,97379	1:48
	17,32189,57467	17,71908	2,17016	61,42287,1338	62,35827	
4	12256,22415,83007	12349,32785	1 00759,64420	9,08835,66953,2237	9,09164,33206	2:24
	17,32152,24008	17,71985	2,17331	61,33480,1726	62,27153	
5	12273,54568,07015	12367,04770	1 00761,81751	9,08897,00433,3963	9,09226,60359	3: 0
	17,32114,85272	17,72061	2,17649	61,24698,0519	62,18506	
6	12290,86682,92287	12384,76831	1 00763,99400	9,08958,25131,4482	9,09288,78865	3:36
	17,32077,41260	17,72138	2,17964	61,15940,6667	62,09883	
7	12308,18760,33547	12402,48969	1 00766,17364	9,09019,41072,1149	9,09350,88748	4:12
	17,32039,91972	17,72215	2,18281	61,07207,9120	62,01284	
8	12325,50800,25519	12420,21184	1 00768,35645	9,09080,48280,0269	9,09412,90032	4:48
	17,32002,37407	17,72291	2,18598	60,98499,6834	61,92711	
9	12342,82802,62926	12437,93475	1 00770,54243	9,09141,46779,7103	9,09474,82743	5:24
	17,31964,77567	17,72369	2,18914	60,89815,8772	61,84160	
10	12360,14767,40493	12455,65844	1 00772,73157	9,09202,36595,5875	9,09536,66903	6: 0
	17,31927,12450	17,72445	2,19230	60,81156,3904	61,75636	
11	12377,46694,52943	12473,38289	1 00774,92387	9,09263,17751,9779	9,09598,42539	6:36
	17,31889,42059	17,72523	2,19547	60,72521,1203	61,67135	
12	12394,78583,95002	12491,10812	1 00777,11934	9,09323,90273,0982	9,09660,09674	7:12
	17,31851,66391	17,72600	2,19863	60,63909,9652	61,58658	
13	12412,10435,61393	12508,83412	1 00779,31797	9,09384,54183,0634	9,09721,68332	7:48
	17,31813,85447	17,72677	2,20180	60,55322,8233	61,50206	
14	12429,42249,46840	12526,56089	1 00781,51977	9,09445,09505,8867	9,09783,18538	8:24
	17,31775,99229	17,72755	2,20497	60,46759,5941	61,41776	
15	12446,74025,46069	12544,28844	1 00783,72474	9,09505,56265,4808	9,09844,60314	9: 0
	17,31738,07735	17,72832	2,20813	60,38220,1772	61,33372	
16	12464,05763,53804	12562,01676	1 00785,93287	9,09565,94485,6580	9,09905,93686	9:36
	17,31700,10966	17,72910	2,21130	60,29704,4729	61,24990	
17	12481,37463,64770	12579,74586	1 00788,14417	9,09626,24190,1309	9,09967,18676	10:12
	17,31662,08922	17,72988	2,21447	60,21212,3822	61,16632	
18	12498,69125,73692	12597,47574	1 00790,35864	9,09686,45402,5131	9,10028,35308	10:48
	17,31624,01603	17,73066	2,21764	60,12743,8062	61,08298	
19	12516,00749,75295	12615,20640	1 00792,57628	9,09746,58146,3193	9,10089,43606	11:24
	17,31585,89009	17,73144	2,22080	60,04298,6472	60,99988	
20	12533,32335,64304	12632,93784	1 00794,79708	9,09806,62444,9665	9,10150,43594	12: 0
	17,31547,71141	17,73223	2,22397	59,95876,8074	60,91700	
21	12550,63883,35445	12650,67007	1 00797,02105	9,09866,58321,7739	9,10211,35294	12:36
	17,31509,47997	17,73300	2,22714	59,87478,1899	60,83436	
22	12567,95392,83442	12668,40307	1 00799,24819	9,09926,45799,9638	9,10272,18730	13:12
	17,31471,19579	17,73379	2,23031	59,79102,6986	60,75194	
23	12585,26864,03021	12686,13686	1 00801,47850	9,09986,24902,6624	9,10332,93924	13:48
	17,31432,85888	17,73458	2,23348	59,70750,2370	60,66977	
24	12602,58296,88909	12703,87144	1 00803,71198	9,10045,95652,8994	9,10393,60901	14:24
	17,31394,46921	17,73536	2,23665	59,62420,7103	60,58782	
25	12619,89691,35830	12721,60680	1 00805,94863	9,10105,58073,6097	9,10454,19683	15: 0
	17,31356,02680	17,73615	2,23982	59,54114,0234	60,50609	
26	12637,21047,38510	12739,34295	1 00808,18845	9,10165,12187,6331	9,10514,70292	15:36
	17,31317,53167	17,73694	2,24299	59,45830,0820	60,42460	
27	12654,52364,91677	12757,07989	1 00810,43144	9,10224,58017,7151	9,10575,12752	16:12
	17,31278,98378	17,73773	2,24616	59,37568,7923	60,34333	
28	12671,83643,90055	12774,81762	1 00812,67760	9,10283,95586,5074	9,10635,47085	16:48
	17,31240,38315	17,73851	2,24933	59,29330,0610	60,26229	
29	12689,14884,28370	12792,55613	1 00814,92693	9,10343,24916,5684	9,10695,73314	17:24
	17,31201,72980	17,73932	2,25251	59,21113,7954	60,18146	
30	12706,46086,01350	12810,29545	1 00817,17944	9,10402,46030,3638	9,10755,91460	18: 0
	17,31163,02371	17,74010	2,25567	59,12919,9032	60,10088	
31	12723,77249,03721	12828,03555	1 00819,43511	9,10461,58950,2670	9,10816,01548	18:36
	17,31124,26488	17,74090	2,25885	59,04748,2927	60,02050	
32	12741,08373,30209	12845,77645	1 00821,69396	9,10520,63698,5597	9,10876,03598	19:12
	17,31085,45332	17,74169	2,26202	58,96598,8725	59,94036	
33	12758,39458,75541	12863,51814	1 00823,95598	9,10579,60297,4322	9,10935,97634	19:48
	17,31046,58903	17,74249	2,26519	58,88471,5520	59,86042	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
100	99254,61516,41322	8 14434,64280	8 20550,90481	9,99675,07098,3027	10,91085,62385	60: 0
	2,12853,30231	1173,46878	1164,70943	93136,2292	62,61994	
99	99252,48663,11091	8 13261,17402	8 19386,19538	9,99674,13962,0735	10,91023,00391	59:24
	2,13155,64267	1170,14223	1161,38280	93270,5230	62,53246	
98	99250,35507,46824	8 12091,03179	8 18224,81258	9,99673,20691,5505	10,90960,47145	58:48
	2,13457,97655	1166,82988	1158,07036	93404,8228	62,44524	
97	99248,22049,49169	8 10924,20191	8 17066,74222	9,99672,27286,7277	10,90898,02621	58:12
	2,13760,30391	1163,53166	1154,77204	93539,1282	62,35827	
96	99246,08289,18778	8 09760,67025	8 15911,97018	9,99671,33747,5995	10,90835,66794	57:36
	2,14062,62476	1160,24746	1151,48774	93673,4394	62,27153	
95	99243,94226,56302	8 08600,42279	8 14760,48244	9,99670,40074,1601	10,90773,39641	57: 0
	2,14364,93911	1156,97722	1148,21742	93807,7564	62,18506	
94	99241,79861,62391	8 07443,44557	8 13612,26502	9,99669,46266,4037	10,90711,21135	56:24
	2,14667,24690	1153,72086	1144,96096	93942,0792	62,09883	
93	99239,65194,37701	8 06289,72471	8 12467,30406	9,99668,52324,3245	10,90649,11252	55:48
	2,14969,54818	1150,47830	1141,71830	94076,4079	62,01284	
92	99237,50224,82883	8 05139,24641	8 11325,58576	9,99667,58247,9166	10,90587,09968	55:12
	2,15271,84289	1147,24945	1138,48936	94210,7423	61,92711	
91	99235,34952,98594	8 03991,99696	8 10187,09640	9,99666,64037,1743	10,90525,17257	54:36
	2,15574,13105	1144,03425	1135,27407	94345,0826	61,84160	
90	99233,19378,85489	8 02847,96271	8 09051,82233	9,99665,69692,0917	10,90463,33097	54: 0
	2,15876,41265	1140,83262	1132,07234	94479,4287	61,75636	
89	99231,03502,44224	8 01707,13009	8 07919,74999	9,99664,75212,6630	10,90401,57461	53:24
	2,16178,68766	1137,64448	1128,88410	94613,7807	61,67135	
88	99228,87323,75458	8 00569,48561	8 06790,86589	9,99663,80598,8823	10,90339,90326	52:48
	2,16480,95610	1134,46975	1125,70928	94748,1385	61,58658	
87	99226,70842,79848	7 99435,01586	8 05665,15661	9,99662,85850,7438	10,90278,31668	52:12
	2,16783,21794	1131,30836	1122,54779	94882,5022	61,50206	
86	99224,54059,58054	7 98303,70750	8 04542,60882	9,99661,90968,2416	10,90216,81462	51:36
	2,17085,47317	1128,16024	1119,39957	95016,8717	61,41776	
85	99222,36974,10737	7 97175,54726	8 03423,20925	9,99660,95951,3699	10,90155,39686	51: 0
	2,17387,72179	1125,02530	1116,26455	95151,2471	61,33372	
84	99220,19586,38558	7 96050,52196	8 02306,94470	9,99660,00800,1228	10,90094,06314	50:24
	2,17689,96379	1121,90349	1113,14263	95285,6285	61,24990	
83	99218,01896,42179	7 94928,61847	8 01193,80207	9,99659,05514,4943	10,90032,81324	49:48
	2,17992,19916	1118,79471	1110,03377	95420,0156	61,16632	
82	99215,83904,22263	7 93809,82376	8 00083,76830	9,99658,10094,4787	10,89971,64692	49:12
	2,18294,42789	1115,69892	1106,93787	95554,4088	61,08298	
81	99213,65609,79474	7 92694,12484	7 98976,83043	9,99657,14540,0699	10,89910,56394	48:36
	2,18596,64996	1112,61601	1103,85487	95688,8078	60,99988	
80	99211,47013,14478	7 91581,50883	7 97872,97556	9,99656,18851,2621	10,89849,56406	48: 0
	2,18898,86539	1109,54594	1100,78471	95823,2128	60,91700	
79	99209,28114,27939	7 90471,96289	7 96772,19085	9,99655,23028,0493	10,89788,64706	47:24
	2,19201,07414	1106,48862	1097,72729	95957,6236	60,83436	
78	99207,08913,20525	7 89365,47427	7 95674,46356	9,99654,27070,4257	10,89727,81270	46:48
	2,19503,27621	1103,44400	1094,68256	96092,0405	60,75194	
77	99204,89409,92904	7 88262,03027	7 94579,78100	9,99653,30978,3852	10,89667,06076	46:12
	2,19805,47160	1100,41198	1091,65046	96226,4633	60,66977	
76	99202,69604,45744	7 87161,61829	7 93488,13054	9,99652,34751,9219	10,89606,39099	45:36
	2,20107,66029	1097,39251	1088,63089	96360,8920	60,58782	
75	99200,49496,79715	7 86064,22578	7 92399,49965	9,99651,38391,0299	10,89545,80317	45: 0
	2,20409,84228	1094,38552	1085,62380	96495,3266	60,50609	
74	99198,29086,95487	7 84969,84026	7 91313,87585	9,99650,41895,7033	10,89485,29708	44:24
	2,20712,01755	1091,39094	1082,62912	96629,7674	60,42460	
73	99196,08374,93732	7 83878,44932	7 90231,24673	9,99649,45265,9359	10,89424,87248	43:48
	2,21014,18611	1088,40871	1079,64679	96764,2140	60,34333	
72	99193,87360,75121	7 82790,04061	7 89151,59994	9,99648,48501,7219	10,89364,52915	43:12
	2,21316,34792	1085,43873	1076,67672	96898,6667	60,26229	
71	99191,66044,40329	7 81704,60188	7 88074,92322	9,99647,51603,0552	10,89304,26686	42:36
	2,21618,50299	1082,48097	1073,71887	97033,1252	60,18146	
70	99189,44425,90030	7 80622,12091	7 87001,20435	9,99646,54569,9300	10,89244,08540	42: 0
	2,21920,65133	1079,53535	1070,77314	97167,5900	60,10088	
69	99187,22505,24897	7 79542,58556	7 85930,43121	9,99645,57402,3400	10,89183,98452	41:24
	2,22222,79288	1076,60180	1067,83949	97302,0606	60,02050	
68	99185,00282,45609	7 78465,98376	7 84862,59172	9,99644,60100,2794	10,89123,96402	40:48
	2,22524,92768	1073,68025	1064,91785	97436,5373	59,94036	
67	99182,77757,52841	7 77392,30351	7 83797,67387	9,99643,62663,7421	10,89064,02366	40:12
	2,22827,05570	1070,77065	1062,00815	97571,0201	59,86042	

GRAD. 82.

7. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	12758,39458,75541	12863,51814	1 00823,95598	9,10579,60297,4322	9,10935,97634	19:48
	17,31046,58903	17,74249	2,26519	58,88471,5520	59,86042	
34	12775,70505,34444	12881,26063	1 00826,22117	9,10638,48768,9842	9,10995,83676	20:24
	17,31007,67200	17,74329	2,26837	58,80366,2407	59,78072	
35	12793,01513,01644	12899,00392	1 00828,48954	9,10697,29135,2249	9,11055,61748	21: 0
	17,30968,70225	17,74409	2,27154	58,72282,8492	59,70123	
36	12810,32481,71869	12916,74801	1 00830,76108	9,10756,01418,0741	9,11115,31871	21:36
	17,30929,67978	17,74489	2,27471	58,64221,2878	59,62196	
37	12827,63411,39847	12934,49290	1 00833,03579	9,10814,65639,3619	9,11174,94067	22:12
	17,30890,60456	17,74569	2,27789	58,56181,4680	59,54290	
38	12844,94302,00303	12952,23859	1 00835,31368	9,10873,21820,8299	9,11234,48357	22:48
	17,30851,47663	17,74649	2,28106	58,48163,3014	59,46407	
39	12862,25153,47966	12969,98508	1 00837,59474	9,10931,69984,1313	9,11293,94764	23:24
	17,30812,29597	17,74729	2,28424	58,40166,7000	59,38545	
40	12879,55965,77563	12987,73237	1 00839,87898	9,10990,10150,8313	9,11353,33309	24: 0
	17,30773,06259	17,74810	2,28741	58,32191,5767	59,30704	
41	12896,86738,83822	13005,48047	1 00842,16639	9,11048,42342,4080	9,11412,64013	24:36
	17,30733,77648	17,74891	2,29059	58,24237,8443	59,22885	
42	12914,17472,61470	13023,22938	1 00844,45698	9,11106,66580,2523	9,11471,86898	25:12
	17,30694,43766	17,74971	2,29376	58,16305,4166	59,15087	
43	12931,48167,05236	13040,97909	1 00846,75074	9,11164,82885,6689	9,11531,01985	25:48
	17,30655,04611	17,75052	2,29694	58,08394,2076	59,07310	
44	12948,78822,09847	13058,72961	1 00849,04768	9,11222,91279,8765	9,11590,09295	26:24
	17,30615,60185	17,75133	2,30012	58,00504,1316	58,99555	
45	12966,09437,70032	13076,48094	1 00851,34780	9,11280,91784,0081	9,11649,08850	27: 0
	17,30576,10486	17,75214	2,30330	57,92635,1039	58,91820	
46	12983,40013,80518	13094,23308	1 00853,65110	9,11338,84419,1120	9,11708,00670	27:36
	17,30536,55517	17,75295	2,30647	57,84787,0397	58,84107	
47	13000,70550,36035	13111,98603	1 00855,95757	9,11396,69206,1517	9,11766,84777	28:12
	17,30496,95275	17,75376	2,30965	57,76959,8547	58,76415	
48	13018,01047,31310	13129,73979	1 00858,26722	9,11454,46166,0064	9,11825,61192	28:48
	17,30457,29763	17,75458	2,31283	57,69153,4656	58,68742	
49	13035,31504,61073	13147,49437	1 00860,58005	9,11512,15319,4720	9,11884,29934	29:24
	17,30417,58979	17,75539	2,31601	57,61367,7888	58,61091	
50	13052,61922,20052	13165,24976	1 00862,89606	9,11569,76687,2608	9,11942,91025	30: 0
	17,30377,82923	17,75621	2,31918	57,53602,7417	58,53461	
51	13069,92300,02975	13183,00597	1 00865,21524	9,11627,30290,0025	9,12001,44486	30:36
	17,30338,01597	17,75702	2,32237	57,45858,2420	58,45851	
52	13087,22638,04572	13200,76299	1 00867,53761	9,11684,76148,2445	9,12059,90337	31:12
	17,30298,15000	17,75784	2,32555	57,38134,2076	58,38262	
53	13104,52936,19572	13218,52083	1 00869,86316	9,11742,14282,4521	9,12118,28599	31:48
	17,30258,23132	17,75867	2,32872	57,30430,5571	58,30692	
54	13121,83194,42704	13236,27950	1 00872,19188	9,11799,44713,0092	9,12176,59291	32:24
	17,30218,25994	17,75948	2,33191	57,22747,2095	58,23144	
55	13139,13412,68698	13254,03898	1 00874,52379	9,11856,67460,2187	9,12234,82435	33: 0
	17,30178,23585	17,76030	2,33508	57,15084,0840	58,15615	
56	13156,43590,92283	13271,79928	1 00876,85887	9,11913,82544,3027	9,12292,98050	33:36
	17,30138,15904	17,76113	2,33827	57,07441,1007	58,08107	
57	13173,73729,08187	13289,56041	1 00879,19714	9,11970,89985,4034	9,12351,06157	34:12
	17,30098,02955	17,76195	2,34145	56,99818,1795	58,00619	
58	13191,03827,11142	13307,32236	1 00881,53859	9,12027,89803,5829	9,12409,06776	34:48
	17,30057,84736	17,76278	2,34463	56,92215,2413	57,93150	
59	13208,33884,95878	13325,08514	1 00883,88322	9,12084,82018,8242	9,12466,99926	35:24
	17,30017,61244	17,76360	2,34782	56,84632,2071	57,85702	
60	13225,63902,57122	13342,84874	1 00886,23104	9,12141,66651,0313	9,12524,85628	36: 0
	17,29977,32485	17,76443	2,35099	56,77068,9983	57,78274	
61	13242,93879,89607	13360,61317	1 00888,58203	9,12198,43720,0296	9,12582,63902	36:36
	17,29936,98455	17,76526	2,35418	56,69525,5368	57,70864	
62	13260,23816,88062	13378,37843	1 00890,93621	9,12255,13245,5664	9,12640,34766	37:12
	17,29896,59156	17,76609	2,35736	56,62001,7451	57,63476	
63	13277,53713,47218	13396,14452	1 00893,29357	9,12311,75247,3115	9,12697,98242	37:48
	17,29856,14586	17,76692	2,36055	56,54497,5455	57,56105	
64	13294,83569,61804	13413,91144	1 00895,65412	9,12368,29744,8570	9,12755,54347	38:24
	17,29815,64748	17,76775	2,36373	56,47012,8617	57,48756	
65	13312,13385,26552	13431,67919	1 00898,01785	9,12424,76757,7187	9,12813,03103	39: 0
	17,29775,09640	17,76858	2,36691	56,39547,6166	57,41426	
66	13329,43160,36192	13449,44777	1 00900,38476	9,12481,16305,3353	9,12870,44529	39:36
	17,29734,49263	17,76942	2,37010	56,32101,7346	57,34114	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	99182,77757,52841	7 77392,30351	7 83797,67387	9,99643,62663,7421	10,89064,02366	40:12
	2,22827,05570	1070,77065	1062,00815	97571,0201	59,86042	
66	99180,54930,47271	7 76321,53286	7 82735,66572	9,99642,65092,7220	10,89004,16324	39:36
	2,23129,17693	1067,87292	1059,11033	97705,5088	59,78072	
65	99178,31801,29578	7 75253,65994	7 81676,55539	9,99641,67387,2132	10,88944,38252	39: 0
	2,23431,29136	1064,98701	1056,22431	97840,0036	59,70123	
64	99176,08370,00442	7 74188,67293	7 80620,33108	9,99640,69547,2096	10,88884,68129	38:24
	2,23733,39899	1062,11284	1053,35005	97974,5045	59,62196	
63	99173,84636,60543	7 73126,56009	7 79566,98103	9,99639,71572,7051	10,88825,05933	37:48
	2,24035,49980	1059,25036	1050,48746	98109,0115	59,54290	
62	99171,60601,10563	7 72067,30973	7 78516,49357	9,99638,73463,6936	10,88765,51643	37:12
	2,24337,59379	1056,39950	1047,63651	98243,5245	59,46407	
61	99169,36263,51184	7 71010,91023	7 77468,85706	9,99637,75220,1691	10,88706,05236	36:36
	2,24639,68094	1053,56019	1044,79710	98378,0436	59,38545	
60	99167,11623,83090	7 69957,35004	7 76424,05996	9,99636,76842,1255	10,88646,66691	36: 0
	2,24941,76124	1050,73238	1041,96919	98512,5689	59,30704	
59	99164,86682,06966	7 68906,61766	7 75382,09077	9,99635,78329,5566	10,88587,35987	35:24
	2,25243,83471	1047,91600	1039,15272	98647,1001	59,22885	
58	99162,61438,23495	7 67858,70166	7 74342,93805	9,99634,79682,4565	10,88528,13102	34:48
	2,25545,90130	1045,11100	1036,34761	98781,6376	59,15087	
57	99160,35892,33365	7 66813,59066	7 73306,59044	9,99633,80900,8189	10,88468,98015	34:12
	2,25847,96103	1042,31731	1033,55382	98916,1811	59,07310	
56	99158,10044,37262	7 65771,27335	7 72273,03662	9,99632,81984,6378	10,88409,90705	33:36
	2,26150,01388	1039,53486	1030,77127	99050,7308	58,99555	
55	99155,83894,35874	7 64731,73849	7 71242,26535	9,99631,82933,9070	10,88350,91150	33: 0
	2,26452,05983	1036,76361	1027,99993	99185,2866	58,91820	
54	99153,57442,29891	7 63694,97488	7 70214,26542	9,99630,83748,6204	10,88291,99330	32:24
	2,26754,09889	1034,00348	1025,23970	99319,8486	58,84107	
53	99151,30688,20002	7 62660,97140	7 69189,02572	9,99629,84428,7718	10,88233,15223	31:48
	2,27056,13105	1031,25444	1022,49055	99454,4166	58,76415	
52	99149,03632,06897	7 61629,71696	7 68166,53517	9,99628,84974,3552	10,88174,38808	31:12
	2,27358,15628	1028,51639	1019,75240	99588,9910	58,68742	
51	99146,76273,91269	7 60601,20057	7 67146,78277	9,99627,85385,3642	10,88115,70066	30:36
	2,27660,17459	1025,78930	1017,02522	99723,5714	58,61091	
50	99144,48613,73810	7 59575,41127	7 66129,75755	9,99626,85661,7928	10,88057,08975	30: 0
	2,27962,18596	1023,07310	1014,30891	99858,1580	58,53461	
49	99142,20651,55214	7 58552,33817	7 65115,44864	9,99625,85803,6348	10,87998,55514	29:24
	2,28264,19039	1020,36775	1011,60346	99992,7509	58,45851	
48	99139,92387,36175	7 57531,97042	7 64103,84518	9,99624,85810,8839	10,87940,09663	28:48
	2,28566,18788	1017,67316	1008,90878	1,00127,3498	58,38262	
47	99137,63821,17387	7 56514,29726	7 63094,93640	9,99623,85683,5341	10,87881,71401	28:12
	2,28868,17838	1014,98931	1006,22482	1,00261,9551	58,30692	
46	99135,34952,99549	7 55499,30795	7 62088,71158	9,99622,85421,5790	10,87823,40709	27:36
	2,29170,16193	1012,31610	1003,55152	1,00396,5666	58,23144	
45	99133,05782,83356	7 54486,99185	7 61085,16006	9,99621,85025,0124	10,87765,17565	27: 0
	2,29472,13849	1009,65353	1000,88883	1,00531,1841	58,15615	
44	99130,76310,69507	7 53477,33832	7 60084,27123	9,99620,84493,8283	10,87707,01950	26:24
	2,29774,10807	1007,00149	998,23670	1,00665,8081	58,08107	
43	99128,46536,58700	7 52470,33683	7 59086,03453	9,99619,83828,0202	10,87648,93843	25:48
	2,30076,07063	1004,35995	995,59506	1,00800,4382	58,00619	
42	99126,16460,51637	7 51465,97688	7 58090,43947	9,99618,83027,5820	10,87590,93224	25:12
	2,30378,02621	1001,72885	992,96386	1,00935,0747	57,93150	
41	99123,86082,49016	7 50464,24803	7 57097,47561	9,99617,82092,5073	10,87533,00074	24:36
	2,30679,97474	999,10814	990,34305	1,01069,7172	57,85702	
40	99121,55402,51542	7 49465,13989	7 56107,13256	9,99616,81022,7901	10,87475,14372	24: 0
	2,30981,91627	996,49777	987,73257	1,01204,3662	57,78274	
39	99119,24420,59915	7 48468,64212	7 55119,39999	9,99615,79818,4239	10,87417,36098	23:24
	2,31283,85075	993,89766	985,13236	1,01339,0213	57,70864	
38	99116,93136,74840	7 47474,74446	7 54134,26763	9,99614,78479,4026	10,87359,65234	22:48
	2,31585,77819	991,30778	982,54239	1,01473,6828	57,63476	
37	99114,61550,97021	7 46483,43668	7 53151,72524	9,99613,77005,7198	10,87302,01758	22:12
	2,31887,69857	988,72808	979,96257	1,01608,3506	57,56105	
36	99112,29663,27164	7 45494,70860	7 52171,76267	9,99612,75397,3692	10,87244,45653	21:36
	2,32189,61189	986,15848	977,39288	1,01743,0246	57,48756	
35	99109,97473,65975	7 44508,55012	7 51194,36979	9,99611,73654,3446	10,87186,96897	21: 0
	2,32491,51814	983,59895	974,83325	1,01877,7051	57,41426	
34	99107,64982,14161	7 43524,95117	7 50219,53654	9,99610,71776,6395	10,87129,55471	20:24
	2,32793,41730	981,04944	972,28363	1,02012,3917	57,34114	

GRAD. 82.

7. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	13346,72894,85455	13467,21719	1 00902,75486	9,12537,48407,0699	9,12927,78643	40:12
	17,29693,83617	17,77026	2,37329	56,24675,1397	57,26822	
68	13364,02588,69072	13484,98745	1 00905,12815	9,12593,73082,2096	9,12985,05465	40:48
	17,29653,12702	17,77109	2,37647	56,17267,7568	57,19550	
69	13381,32241,81774	13502,75854	1 00907,50462	9,12649,90349,9664	9,13042,25015	41:24
	17,29612,36518	17,77192	2,37965	56,09879,5110	57,12296	
70	13398,61854,18292	13520,53046	1 00909,88427	9,12706,00229,4774	9,13099,37311	42: 0
	17,29571,55065	17,77277	2,38285	56,02510,3275	57,05061	
71	13415,91425,73357	13538,30323	1 00912,26712	9,12762,02739,8049	9,13156,42372	42:36
	17,29530,68345	17,77361	2,38602	55,95160,1325	56,97846	
72	13433,20956,41702	13556,07684	1 00914,65314	9,12817,97899,9374	9,13213,40218	43:12
	17,29489,76354	17,77445	2,38922	55,87828,8521	56,90650	
73	13450,50446,18056	13573,85129	1 00917,04236	9,12873,85728,7895	9,13270,30868	43:48
	17,29448,79097	17,77529	2,39240	55,80516,4131	56,83471	
74	13467,79894,97153	13591,62658	1 00919,43476	9,12929,66245,2026	9,13327,14339	44:24
	17,29407,76570	17,77613	2,39559	55,73222,7422	56,76313	
75	13485,09302,73723	13609,40271	1 00921,83035	9,12985,39467,9448	9,13383,90652	45: 0
	17,29366,68776	17,77698	2,39878	55,65947,7671	56,69173	
76	13502,38669,42499	13627,17969	1 00924,22913	9,13041,05415,7119	9,13440,59825	45:36
	17,29325,55714	17,77782	2,40197	55,58691,4155	56,62051	
77	13519,67994,98213	13644,95751	1 00926,63110	9,13096,64107,1274	9,13497,21876	46:12
	17,29284,37384	17,77867	2,40516	55,51453,6154	56,54948	
78	13536,97279,35597	13662,73618	1 00929,03626	9,13152,15560,7428	9,13553,76824	46:48
	17,29243,13786	17,77952	2,40834	55,44234,2954	56,47863	
79	13554,26522,49383	13680,51570	1 00931,44460	9,13207,59795,0382	9,13610,24687	47:24
	17,29201,84921	17,78036	2,41154	55,37033,3844	56,40798	
80	13571,55724,34304	13698,29606	1 00933,85614	9,13262,96828,4226	9,13666,65485	48: 0
	17,29160,50789	17,78122	2,41472	55,29850,8116	56,33749	
81	13588,84884,85093	13716,07728	1 00936,27086	9,13318,26679,2342	9,13722,99234	48:36
	17,29119,11388	17,78207	2,41792	55,22686,5067	56,26720	
82	13606,14003,96481	13733,85935	1 00938,68878	9,13373,49365,7409	9,13779,25954	49:12
	17,29077,66721	17,78292	2,42111	55,15540,3994	56,19709	
83	13623,43081,63202	13751,64227	1 00941,10989	9,13428,64906,1403	9,13835,45663	49:48
	17,29036,16786	17,78378	2,42429	55,08412,4204	56,12715	
84	13640,72117,79988	13769,42605	1 00943,53418	9,13483,73318,5607	9,13891,58378	50:24
	17,28994,61586	17,78462	2,42749	55,01302,5001	56,05741	
85	13658,01112,41574	13787,21067	1 00945,96167	9,13538,74621,0608	9,13947,64119	51: 0
	17,28953,01117	17,78549	2,43068	54,94210,5695	55,98783	
86	13675,30065,42691	13804,99616	1 00948,39235	9,13593,68831,6303	9,14003,62902	51:36
	17,28911,35382	17,78634	2,43388	54,87136,5602	55,91844	
87	13692,58976,78073	13822,78250	1 00950,82623	9,13648,55968,1905	9,14059,54746	52:12
	17,28869,64381	17,78720	2,43706	54,80080,4037	55,84922	
88	13709,87846,42454	13840,56970	1 00953,26329	9,13703,36048,5942	9,14115,39668	52:48
	17,28827,88114	17,78806	2,44026	54,73042,0323	55,78020	
89	13727,16674,30568	13858,35776	1 00955,70355	9,13758,09090,6265	9,14171,17688	53:24
	17,28786,06579	17,78892	2,44346	54,66021,3782	55,71133	
90	13744,45460,37147	13876,14668	1 00958,14701	9,13812,75112,0047	9,14226,88821	54: 0
	17,28744,19779	17,78979	2,44664	54,59018,3743	55,64265	
91	13761,74204,56926	13893,93647	1 00960,59365	9,13867,34130,3790	9,14282,53086	54:36
	17,28702,27712	17,79064	2,44984	54,52032,9535	55,57415	
92	13779,02906,84638	13911,72711	1 00963,04349	9,13921,86163,3325	9,14338,10501	55:12
	17,28660,30380	17,79151	2,45304	54,45065,0496	55,50581	
93	13796,31567,15018	13929,51862	1 00965,49653	9,13976,31228,3821	9,14393,61082	55:48
	17,28618,27783	17,79237	2,45623	54,38114,5961	55,43766	
94	13813,60185,42801	13947,31099	1 00967,95276	9,14030,69342,9782	9,14449,04848	56:24
	17,28576,19918	17,79324	2,45942	54,31181,5271	55,36968	
95	13830,88761,62719	13965,10423	1 00970,41218	9,14085,00524,5053	9,14504,41816	57: 0
	17,28534,06789	17,79411	2,46262	54,24265,7772	55,30187	
96	13848,17295,69508	13982,89834	1 00972,87480	9,14139,24790,2825	9,14559,72003	57:36
	17,28491,88395	17,79498	2,46582	54,17367,2809	55,23423	
97	13865,45787,57903	14000,69332	1 00975,34062	9,14193,42157,5634	9,14614,95426	58:12
	17,28449,64734	17,79584	2,46901	54,10485,9736	55,16677	
98	13882,74237,22637	14018,48916	1 00977,80963	9,14247,52643,5370	9,14670,12103	58:48
	17,28407,35809	17,79672	2,47221	54,03621,7906	55,09947	
99	13900,02644,58446	14036,28588	1 00980,28184	9,14301,56265,3276	9,14725,22050	59:24
	17,28365,01619	17,79759	2,47541	53,96774,6676	55,03236	
100	13917,31009,60065	14054,08347	1 00982,75725	9,14355,53039,9952	9,14780,25286	60: 0
	17,28322,62164	17,79846	2,47861	53,89944,5406	54,96540	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	99105,32188,72431	7 42543,90173	7 49247,25291	9,99609,69764,2478	10,87072,21357	19:48
	2,33095,30938	978,50989	969,74397	1,02147,0847	57,26822	
32	99102,99093,41493	7 41565,39184	7 48277,50894	9,99608,67617,1631	10,87014,94535	19:12
	2,33397,19435	975,98023	967,21423	1,02281,7841	57,19550	
31	99100,65696,22058	7 40589,41161	7 47310,29471	9,99607,65335,3790	10,86957,74985	18:36
	2,33699,07222	973,46044	964,69432	1,02416,4898	57,12296	
30	99098,31997,14836	7 39615,95117	7 46345,60039	9,99606,62918,8892	10,86900,62689	18: 0
	2,34000,94296	970,95045	962,18423	1,02551,2019	57,05061	
29	99095,97996,20540	7 38645,00072	7 45383,41616	9,99605,60367,6873	10,86843,57628	17:24
	2,34302,80657	968,45022	959,68390	1,02685,9202	56,97846	
28	99093,63693,39883	7 37676,55050	7 44423,73226	9,99604,57681,7671	10,86786,59782	16:48
	2,34604,66306	965,95969	957,19326	1,02820,6451	56,90650	
27	99091,29088,73577	7 36710,59081	7 43466,53900	9,99603,54861,1220	10,86729,69132	16:12
	2,34906,51238	963,47881	954,71228	1,02955,3762	56,83471	
26	99088,94182,22339	7 35747,11200	7 42511,82672	9,99602,51905,7458	10,86672,85661	15:36
	2,35208,35457	961,00754	952,24091	1,03090,1138	56,76313	
25	99086,58973,86882	7 34786,10446	7 41559,58581	9,99601,48815,6320	10,86616,09348	15: 0
	2,35510,18957	958,54582	949,77908	1,03224,8577	56,69173	
24	99084,23463,67925	7 33827,55864	7 40609,80673	9,99600,45590,7743	10,86559,40175	14:24
	2,35812,01742	956,09360	947,32677	1,03359,6081	56,62051	
23	99081,87651,66183	7 32871,46504	7 39662,47996	9,99599,42231,1662	10,86502,78124	13:48
	2,36113,83807	953,65085	944,88390	1,03494,3649	56,54948	
22	99079,51537,82376	7 31917,81419	7 38717,59606	9,99598,38736,8013	10,86446,23176	13:12
	2,36415,65153	951,21750	942,45045	1,03629,1281	56,47863	
21	99077,15122,17223	7 30966,59669	7 37775,14561	9,99597,35107,6732	10,86389,75313	12:36
	2,36717,45779	948,79350	940,02635	1,03763,8977	56,40798	
20	99074,78404,71444	7 30017,80319	7 36835,11926	9,99596,31343,7755	10,86333,34515	12: 0
	2,37019,25685	946,37883	937,61157	1,03898,6737	56,33749	
19	99072,41385,45759	7 29071,42436	7 35897,50769	9,99595,27445,1018	10,86277,00766	11:24
	2,37321,04867	943,97340	935,20605	1,04033,4563	56,26720	
18	99070,04064,40892	7 28127,45096	7 34962,30164	9,99594,23411,6455	10,86220,74046	10:48
	2,37622,83327	941,57721	932,80974	1,04168,2452	56,19709	
17	99067,66441,57565	7 27185,87375	7 34029,49190	9,99593,19243,4003	10,86164,54337	10:12
	2,37924,61064	939,19018	930,42261	1,04303,0407	56,12715	
16	99065,28516,96501	7 26246,68357	7 33099,06929	9,99592,14940,3596	10,86108,41622	9:36
	2,38226,38075	936,81228	928,04460	1,04437,8426	56,05741	
15	99062,90290,58426	7 25309,87129	7 32171,02469	9,99591,10502,5170	10,86052,35881	9: 0
	2,38528,14361	934,44344	925,67566	1,04572,6510	55,98783	
14	99060,51762,44065	7 24375,42785	7 31245,34903	9,99590,05929,8660	10,85996,37098	8:24
	2,38829,89920	932,08364	923,31576	1,04707,4659	55,91844	
13	99058,12932,54145	7 23443,34421	7 30322,03327	9,99589,01222,4001	10,85940,45254	7:48
	2,39131,64752	929,73282	920,96483	1,04842,2873	55,84922	
12	99055,73800,89393	7 22513,61139	7 29401,06844	9,99587,96380,1128	10,85884,60332	7:12
	2,39433,38855	927,39095	918,62285	1,04977,1152	55,78020	
11	99053,34367,50538	7 21586,22044	7 28482,44559	9,99586,91402,9976	10,85828,82312	6:36
	2,39735,12229	925,05796	916,28976	1,05111,9496	55,71133	
10	99050,94632,38309	7 20661,16248	7 27566,15583	9,99585,86291,0480	10,85773,11179	6: 0
	2,40036,84873	922,73382	913,96552	1,05246,7906	55,64265	
9	99048,54595,53436	7 19738,42866	7 26652,19031	9,99584,81044,2574	10,85717,46914	5:24
	2,40338,56785	920,41850	911,65008	1,05381,6380	55,57415	
8	99046,14256,96651	7 18818,01016	7 25740,54023	9,99583,75662,6194	10,85661,89499	4:48
	2,40640,27965	918,11192	909,34340	1,05516,4921	55,50581	
7	99043,73616,68686	7 17899,89824	7 24831,19683	9,99582,70146,1273	10,85606,38918	4:12
	2,40941,98413	915,81406	907,04544	1,05651,3526	55,43766	
6	99041,32674,70273	7 16984,08418	7 23924,15139	9,99581,64494,7747	10,85550,95152	3:36
	2,41243,68126	913,52488	904,75615	1,05786,2198	55,36968	
5	99038,91431,02147	7 16070,55930	7 23019,39524	9,99580,58708,5549	10,85495,58184	3: 0
	2,41545,37104	911,24432	902,47548	1,05921,0935	55,30187	
4	99036,49885,65043	7 15159,31498	7 22116,91976	9,99579,52787,4614	10,85440,27997	2:24
	2,41847,05347	908,97234	900,20340	1,06055,9737	55,23423	
3	99034,08038,59696	7 14250,34264	7 21216,71636	9,99578,46731,4877	10,85385,04574	1:48
	2,42148,72853	906,70892	897,93986	1,06190,8607	55,16677	
2	99031,65889,86843	7 13343,63372	7 20318,77650	9,99577,40540,6270	10,85329,87897	1:12
	2,42450,39622	904,45398	895,68483	1,06325,7541	55,09947	
1	99029,23439,47221	7 12439,17974	7 19423,09167	9,99576,34214,8729	10,85274,77950	0:36
	2,42752,05651	902,20750	893,43824	1,06460,6542	55,03236	
0	99026,80687,41570	7 11536,97224	7 18529,65343	9,99575,27754,2187	10,85219,74714	0: 0
	2,43053,70941	899,96944	891,20007	1,06595,5609	54,96540	

GRAD. 82.

8. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
0	13917,31009,60065	14054,08347	1 00982,75725	9,14355,53039,9952	9,14780,25286	0: 0
	17,28322,62164	17,79846	2,47861	53,89944,5406	54,96540	
1	13934,59332,22229	14071,88193	1 00985,23586	9,14409,42984,5358	9,14835,21826	0:36
	17,28280,17445	17,79934	2,48180	53,83131,3461	54,89862	
2	13951,87612,39674	14089,68127	1 00987,71766	9,14463,26115,8819	9,14890,11688	1:12
	17,28237,67459	17,80021	2,48500	53,76335,0208	54,83200	
3	13969,15850,07133	14107,48148	1 00990,20266	9,14517,02450,9027	9,14944,94888	1:48
	17,28195,12211	17,80109	2,48820	53,69555,5017	54,76556	
4	13986,44045,19344	14125,28257	1 00992,69086	9,14570,72006,4044	9,14999,71444	2:24
	17,28152,51697	17,80196	2,49140	53,62792,7260	54,69928	
5	14003,72197,71041	14143,08453	1 00995,18226	9,14624,34799,1304	9,15054,41372	3: 0
	17,28109,85920	17,80285	2,49460	53,56046,6315	54,63317	
6	14021,00307,56961	14160,88738	1 00997,67686	9,14677,90845,7619	9,15109,04689	3:36
	17,28067,14878	17,80372	2,49780	53,49317,1562	54,56722	
7	14038,28374,71839	14178,69110	1 01000,17466	9,14731,40162,9181	9,15163,61411	4:12
	17,28024,38572	17,80461	2,50100	53,42604,2381	54,50144	
8	14055,56399,10411	14196,49571	1 01002,67566	9,14784,82767,1562	9,15218,11555	4:48
	17,27981,57003	17,80549	2,50420	53,35907,8160	54,43583	
9	14072,84380,67414	14214,30120	1 01005,17986	9,14838,18674,9722	9,15272,55138	5:24
	17,27938,70169	17,80637	2,50740	53,29227,8286	54,37038	
10	14090,12319,37583	14232,10757	1 01007,68726	9,14891,47902,8008	9,15326,92176	6: 0
	17,27895,78072	17,80726	2,51060	53,22564,2152	54,30509	
11	14107,40215,15655	14249,91483	1 01010,19786	9,14944,70467,0160	9,15381,22685	6:36
	17,27852,80712	17,80814	2,51381	53,15916,9152	54,23997	
12	14124,68067,96367	14267,72297	1 01012,71167	9,14997,86383,9312	9,15435,46682	7:12
	17,27809,78088	17,80903	2,51701	53,09285,8683	54,17501	
13	14141,95877,74455	14285,53200	1 01015,22868	9,15050,95669,7995	9,15489,64183	7:48
	17,27766,70201	17,80992	2,52021	53,02671,0146	54,11021	
14	14159,23644,44656	14303,34192	1 01017,74889	9,15103,98340,8141	9,15543,75204	8:24
	17,27723,57050	17,81080	2,52341	52,96072,2947	54,04557	
15	14176,51368,01706	14321,15272	1 01020,27230	9,15156,94413,1088	9,15597,79761	9: 0
	17,27680,38638	17,81170	2,52661	52,89489,6488	53,98110	
16	14193,79048,40344	14338,96442	1 01022,79891	9,15209,83902,7576	9,15651,77871	9:36
	17,27637,14962	17,81259	2,52983	52,82923,0181	53,91678	
17	14211,06685,55306	14356,77701	1 01025,32874	9,15262,66825,7757	9,15705,69549	10:12
	17,27593,86024	17,81348	2,53302	52,76372,3439	53,85262	
18	14228,34279,41330	14374,59049	1 01027,86176	9,15315,43198,1196	9,15759,54811	10:48
	17,27550,51823	17,81437	2,53623	52,69837,5675	53,78863	
19	14245,61829,93153	14392,40486	1 01030,39799	9,15368,13035,6871	9,15813,33674	11:24
	17,27507,12359	17,81527	2,53943	52,63318,6309	53,72478	
20	14262,89337,05512	14410,22013	1 01032,93742	9,15420,76354,3180	9,15867,06152	12: 0
	17,27463,67633	17,81617	2,54264	52,56815,4760	53,66111	
21	14280,16800,73145	14428,03630	1 01035,48006	9,15473,33169,7940	9,15920,72263	12:36
	17,27420,17645	17,81706	2,54585	52,50328,0453	53,59758	
22	14297,44220,90790	14445,85336	1 01038,02591	9,15525,83497,8393	9,15974,32021	13:12
	17,27376,62396	17,81797	2,54905	52,43856,2813	53,53422	
23	14314,71597,53186	14463,67133	1 01040,57496	9,15578,27354,1206	9,16027,85443	13:48
	17,27333,01883	17,81886	2,55226	52,37400,1272	53,47100	
24	14331,98930,55069	14481,49019	1 01043,12722	9,15630,64754,2478	9,16081,32543	14:24
	17,27289,36110	17,81976	2,55546	52,30959,5259	53,40795	
25	14349,26219,91179	14499,30995	1 01045,68268	9,15682,95713,7737	9,16134,73338	15: 0
	17,27245,65075	17,82066	2,55868	52,24534,4211	53,34505	
26	14366,53465,56254	14517,13061	1 01048,24136	9,15735,20248,1948	9,16188,07843	15:36
	17,27201,88778	17,82157	2,56188	52,18124,7563	53,28230	
27	14383,80667,45032	14534,95218	1 01050,80324	9,15787,38372,9511	9,16241,36073	16:12
	17,27158,07220	17,82247	2,56509	52,11730,4758	53,21971	
28	14401,07825,52252	14552,77465	1 01053,36833	9,15839,50103,4269	9,16294,58044	16:48
	17,27114,20401	17,82338	2,56829	52,05351,5237	53,15727	
29	14418,34939,72653	14570,59803	1 01055,93662	9,15891,55454,9506	9,16347,73771	17:24
	17,27070,28320	17,82428	2,57151	51,98987,8446	53,09499	
30	14435,62010,00973	14588,42231	1 01058,50813	9,15943,54442,7952	9,16400,83270	18: 0
	17,27026,30979	17,82519	2,57472	51,92639,3834	53,03285	
31	14452,89036,31952	14606,24750	1 01061,08285	9,15995,47082,1786	9,16453,86555	18:36
	17,26982,28377	17,82610	2,57792	51,86306,0851	52,97087	
32	14470,16018,60329	14624,07360	1 01063,66077	9,16047,33388,2637	9,16506,83642	19:12
	17,26938,20514	17,82701	2,58114	51,79987,8951	52,90904	
33	14487,42956,80843	14641,90061	1 01066,24191	9,16099,13376,1588	9,16559,74546	19:48
	17,26894,07391	17,82792	2,58435	51,73684,7591	52,84736	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
100	99026,80687,41570	7 11536,97224	7 18529,65343	9,99575,27754,2187	10,85219,74714	60: 0
	2,43053,70941	899,96944	891,20007	1,06595,5609	54,96540	
99	99024,37633,70629	7 10637,00280	7 17638,45336	9,99574,21158,6578	10,85164,78174	59:24
	2,43355,35492	897,73975	888,97027	1,06730,4743	54,89862	
98	99021,94278,35137	7 09739,26305	7 16749,48309	9,99573,14428,1835	10,85109,88312	58:48
	2,43656,99300	895,51839	886,74880	1,06865,3941	54,83200	
97	99019,50621,35837	7 08843,74466	7 15862,73429	9,99572,07562,7894	10,85055,05112	58:12
	2,43958,62366	893,30532	884,53563	1,07000,3208	54,76556	
96	99017,06662,73471	7 07950,43934	7 14978,19866	9,99571,00562,4686	10,85000,28556	57:36
	2,44260,24690	891,10050	882,33069	1,07135,2540	54,69928	
95	99014,62402,48781	7 07059,33884	7 14095,86797	9,99569,93427,2146	10,84945,58628	57: 0
	2,44561,86269	888,90387	880,13397	1,07270,1938	54,63317	
94	99012,17840,62512	7 06170,43497	7 13215,73400	9,99568,86157,0208	10,84890,95311	56:24
	2,44863,47103	886,71543	877,94541	1,07405,1405	54,56722	
93	99009,72977,15409	7 05283,71954	7 12337,78859	9,99567,78751,8803	10,84836,38589	55:48
	2,45165,07192	884,53510	875,76498	1,07540,0937	54,50144	
92	99007,27812,08217	7 04399,18444	7 11462,02361	9,99566,71211,7866	10,84781,88445	55:12
	2,45466,66533	882,36287	873,59263	1,07675,0536	54,43583	
91	99004,82345,41684	7 03516,82157	7 10588,43098	9,99565,63536,7330	10,84727,44862	54:36
	2,45768,25126	880,19867	871,42833	1,07810,0202	54,37038	
90	99002,36577,16558	7 02636,62290	7 09717,00265	9,99564,55726,7128	10,84673,07824	54: 0
	2,46069,82972	878,04248	869,27204	1,07944,9935	54,30509	
89	98999,90507,33586	7 01758,58042	7 08847,73061	9,99563,47781,7193	10,84618,77315	53:24
	2,46371,40068	875,89426	867,12370	1,08079,9735	54,23997	
88	98997,44135,93518	7 00882,68616	7 07980,60691	9,99562,39701,7458	10,84564,53318	52:48
	2,46672,96413	873,75396	864,98330	1,08214,9603	54,17501	
87	98994,97462,97105	7 00008,93220	7 07115,62361	9,99561,31486,7855	10,84510,35817	52:12
	2,46974,52006	871,62156	862,85078	1,08349,9538	54,11021	
86	98992,50488,45099	6 99137,31064	7 06252,77283	9,99560,23136,8317	10,84456,24796	51:36
	2,47276,06848	869,49701	860,72612	1,08484,9539	54,04557	
85	98990,03212,38251	6 98267,81363	7 05392,04671	9,99559,14651,8778	10,84402,20239	51: 0
	2,47577,60935	867,38026	858,60927	1,08619,9609	53,98110	
84	98987,55634,77316	6 97400,43337	7 04533,43744	9,99558,06031,9169	10,84348,22129	50:24
	2,47879,14270	865,27128	856,50019	1,08754,9746	53,91678	
83	98985,07755,63046	6 96535,16209	7 03676,93725	9,99556,97276,9423	10,84294,30451	49:48
	2,48180,66848	863,17005	854,39884	1,08889,9951	53,85262	
82	98982,59574,96198	6 95671,99204	7 02822,53841	9,99555,88386,9472	10,84240,45189	49:12
	2,48482,18672	861,07651	852,30519	1,09025,0223	53,78863	
81	98980,11092,77526	6 94810,91553	7 01970,23322	9,99554,79361,9249	10,84186,66326	48:36
	2,48783,69737	858,99063	850,21919	1,09160,0563	53,72478	
80	98977,62309,07789	6 93951,92490	7 01120,01403	9,99553,70201,8686	10,84132,93848	48: 0
	2,49085,20045	856,91238	848,14084	1,09295,0971	53,66111	
79	98975,13223,87744	6 93095,01252	7 00271,87319	9,99552,60906,7715	10,84079,27737	47:24
	2,49386,69595	854,84169	846,07005	1,09430,1447	53,59758	
78	98972,63837,18149	6 92240,17083	6 99425,80314	9,99551,51476,6268	10,84025,67979	46:48
	2,49688,18384	852,77858	844,00681	1,09565,1991	53,53422	
77	98970,14148,99765	6 91387,39225	6 98581,79633	9,99550,41911,4277	10,83972,14557	46:12
	2,49989,66414	850,72296	841,95109	1,09700,2604	53,47100	
76	98967,64159,33351	6 90536,66929	6 97739,84524	9,99549,32211,1673	10,83918,67457	45:36
	2,50291,13681	848,67482	839,90284	1,09835,3283	53,40795	
75	98965,13868,19670	6 89687,99447	6 96899,94240	9,99548,22375,8390	10,83865,26662	45: 0
	2,50592,60186	846,63413	837,86204	1,09970,4033	53,34505	
74	98962,63275,59484	6 88841,36034	6 96062,08036	9,99547,12405,4357	10,83811,92157	44:24
	2,50894,05928	844,60083	835,82862	1,10105,4850	53,28230	
73	98960,12381,53556	6 87996,75951	6 95226,25174	9,99546,02299,9507	10,83758,63927	43:48
	2,51195,50905	842,57490	833,80259	1,10240,5735	53,21971	
72	98957,61186,02651	6 87154,18461	6 94392,44915	9,99544,92059,3772	10,83705,41956	43:12
	2,51496,95118	840,55630	831,78388	1,10375,6689	53,15727	
71	98955,09689,07533	6 86313,62831	6 93560,66527	9,99543,81683,7083	10,83652,26229	42:36
	2,51798,38564	838,54500	829,77247	1,10510,7713	53,09499	
70	98952,57890,68969	6 85475,08331	6 92730,89280	9,99542,71172,9370	10,83599,16730	42: 0
	2,52099,81243	836,54097	827,76832	1,10645,8804	53,03285	
69	98950,05790,87726	6 84638,54234	6 91903,12448	9,99541,60527,0566	10,83546,13445	41:24
	2,52401,23154	834,54415	825,77140	1,10780,9965	52,97087	
68	98947,53389,64572	6 83803,99819	6 91077,35308	9,99540,49746,0601	10,83493,16358	40:48
	2,52702,64297	832,55453	823,78166	1,10916,1194	52,90904	
67	98945,00687,00275	6 82971,44366	6 90253,57142	9,99539,38829,9407	10,83440,25454	40:12
	2,53004,04669	830,57207	821,79909	1,11051,2492	52,84736	

GRAD. 81.

8. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	14487,42956,80843	14641,90061	1 01066,24191	9,16099,13376,1588	9,16559,74546	19:48
	17,26894,07391	17,82792	2,58435	51,73684,7591	52,84736	
34	14504,69850,88234	14659,72853	1 01068,82626	9,16150,87060,9179	9,16612,59282	20:24
	17,26849,89006	17,82884	2,58755	51,67396,6228	52,78583	
35	14521,96700,77240	14677,55737	1 01071,41381	9,16202,54457,5407	9,16665,37865	21: 0
	17,26805,65363	17,82975	2,59077	51,61123,4325	52,72445	
36	14539,23506,42603	14695,38712	1 01074,00458	9,16254,15580,9732	9,16718,10310	21:36
	17,26761,36458	17,83066	2,59398	51,54865,1345	52,66322	
37	14556,50267,79061	14713,21778	1 01076,59856	9,16305,70446,1077	9,16770,76632	22:12
	17,26717,02295	17,83157	2,59720	51,48621,6755	52,60214	
38	14573,76984,81356	14731,04935	1 01079,19576	9,16357,19067,7832	9,16823,36846	22:48
	17,26672,62870	17,83250	2,60040	51,42393,0023	52,54120	
39	14591,03657,44226	14748,88185	1 01081,79616	9,16408,61460,7855	9,16875,90966	23:24
	17,26628,18186	17,83341	2,60362	51,36179,0623	52,48041	
40	14608,30285,62412	14766,71526	1 01084,39978	9,16459,97639,8478	9,16928,39007	24: 0
	17,26583,68242	17,83433	2,60684	51,29979,8027	52,41977	
41	14625,56869,30654	14784,54959	1 01087,00662	9,16511,27619,6505	9,16980,80984	24:36
	17,26539,13040	17,83525	2,61004	51,23795,1712	52,35928	
42	14642,83408,43694	14802,38484	1 01089,61666	9,16562,51414,8217	9,17033,16912	25:12
	17,26494,52577	17,83618	2,61326	51,17625,1157	52,29892	
43	14660,09902,96271	14820,22102	1 01092,22992	9,16613,69039,9374	9,17085,46804	25:48
	17,26449,86856	17,83709	2,61648	51,11469,5845	52,23873	
44	14677,36352,83127	14838,05811	1 01094,84640	9,16664,80509,5219	9,17137,70677	26:24
	17,26405,15875	17,83802	2,61969	51,05328,5257	52,17867	
45	14694,62757,99002	14855,89613	1 01097,46609	9,16715,85838,0476	9,17189,88544	27: 0
	17,26360,39635	17,83895	2,62291	50,99201,8884	52,11875	
46	14711,89118,38637	14873,73508	1 01100,08900	9,16766,85039,9360	9,17242,00419	27:36
	17,26315,58138	17,83987	2,62612	50,93089,6210	52,05898	
47	14729,15433,96775	14891,57495	1 01102,71512	9,16817,78129,5570	9,17294,06317	28:12
	17,26270,71380	17,84080	2,62934	50,86991,6729	51,99936	
48	14746,41704,68155	14909,41575	1 01105,34446	9,16868,65121,2299	9,17346,06253	28:48
	17,26225,79365	17,84173	2,63255	50,80907,9935	51,93987	
49	14763,67930,47520	14927,25748	1 01107,97701	9,16919,46029,2234	9,17398,00240	29:24
	17,26180,82091	17,84265	2,63578	50,74838,5323	51,88052	
50	14780,94111,29611	14945,10013	1 01110,61279	9,16970,20867,7557	9,17449,88292	30: 0
	17,26135,79558	17,84359	2,63899	50,68783,2392	51,82133	
51	14798,20247,09169	14962,94372	1 01113,25178	9,17020,89650,9949	9,17501,70425	30:36
	17,26090,71769	17,84452	2,64220	50,62742,0642	51,76227	
52	14815,46337,80938	14980,78824	1 01115,89398	9,17071,52393,0591	9,17553,46652	31:12
	17,26045,58720	17,84546	2,64543	50,56714,9578	51,70335	
53	14832,72383,39658	14998,63370	1 01118,53941	9,17122,09108,0169	9,17605,16987	31:48
	17,26000,40414	17,84638	2,64865	50,50701,8702	51,64457	
54	14849,98383,80072	15016,48008	1 01121,18806	9,17172,59809,8871	9,17656,81444	32:24
	17,25955,16851	17,84733	2,65186	50,44702,7526	51,58593	
55	14867,24338,96923	15034,32741	1 01123,83992	9,17223,04512,6397	9,17708,40037	33: 0
	17,25909,88029	17,84826	2,65509	50,38717,5558	51,52744	
56	14884,50248,84952	15052,17567	1 01126,49501	9,17273,43230,1955	9,17759,92781	33:36
	17,25864,53951	17,84919	2,65830	50,32746,2309	51,46907	
57	14901,76113,38903	15070,02486	1 01129,15331	9,17323,75976,4264	9,17811,39688	34:12
	17,25819,14614	17,85014	2,66153	50,26788,7297	51,41085	
58	14919,01932,53517	15087,87500	1 01131,81484	9,17374,02765,1561	9,17862,80773	34:48
	17,25773,70021	17,85108	2,66474	50,20845,0036	51,35277	
59	14936,27706,23538	15105,72608	1 01134,47958	9,17424,23610,1597	9,17914,16050	35:24
	17,25728,20172	17,85201	2,66797	50,14915,0046	51,29482	
60	14953,53434,43710	15123,57809	1 01137,14755	9,17474,38525,1643	9,17965,45532	36: 0
	17,25682,65064	17,85296	2,67119	50,08998,6850	51,23701	
61	14970,79117,08774	15141,43105	1 01139,81874	9,17524,47523,8493	9,18016,69233	36:36
	17,25637,04700	17,85391	2,67441	50,03095,9969	51,17934	
62	14988,04754,13474	15159,28496	1 01142,49315	9,17574,50619,8462	9,18067,87167	37:12
	17,25591,39080	17,85485	2,67763	49,97206,8930	51,12180	
63	15005,30345,52554	15177,13981	1 01145,17078	9,17624,47826,7392	9,18118,99347	37:48
	17,25545,68203	17,85579	2,68086	49,91331,3262	51,06440	
64	15022,55891,20757	15194,99560	1 01147,85164	9,17674,39158,0654	9,18170,05787	38:24
	17,25499,92070	17,85674	2,68408	49,85469,2495	51,00713	
65	15039,81391,12827	15212,85234	1 01150,53572	9,17724,24627,3149	9,18221,06500	39: 0
	17,25454,10681	17,85769	2,68730	49,79620,6159	50,95000	
66	15057,06845,23508	15230,71003	1 01153,22302	9,17774,04247,9308	9,18272,01500	39:36
	17,25408,24035	17,85864	2,69053	49,73785,3791	50,89299	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	98945,00687,00275	6 82971,44366	6 90253,57142	9,99539,38829,9407	10,83440,25454	40:12
	2,53004,04669	830,57207	821,79909	1,11051,2492	52,84736	
66	98942,47682,95606	6 82140,87159	6 89431,77233	9,99538,27778,6915	10,83387,40718	39:36
	2,53305,44271	828,59673	819,82364	1,11186,3860	52,78583	
65	98939,94377,51335	6 81312,27486	6 88611,94869	9,99537,16592,3055	10,83334,62135	39: 0
	2,53606,83102	826,62847	817,85527	1,11321,5297	52,72445	
64	98937,40770,68233	6 80485,64639	6 87794,09342	9,99536,05270,7758	10,83281,89690	38:24
	2,53908,21159	824,66728	815,89397	1,11456,6803	52,66322	
63	98934,86862,47074	6 79660,97911	6 86978,19945	9,99534,93814,0955	10,83229,23368	37:48
	2,54209,58444	822,71310	813,93967	1,11591,8379	52,60214	
62	98932,32652,88630	6 78838,26601	6 86164,25978	9,99533,82222,2576	10,83176,63154	37:12
	2,54510,94953	820,76592	811,99238	1,11727,0023	52,54120	
61	98929,78141,93677	6 78017,50009	6 85352,26740	9,99532,70495,2553	10,83124,09034	36:36
	2,54812,30689	818,82568	810,05203	1,11862,1738	52,48041	
60	98927,23329,62988	6 77198,67441	6 84542,21537	9,99531,58633,0815	10,83071,60993	36: 0
	2,55113,65646	816,89237	808,11861	1,11997,3521	52,41977	
59	98924,68215,97342	6 76381,78204	6 83734,09676	9,99530,46635,7294	10,83019,19016	35:24
	2,55414,99829	814,96595	806,19207	1,12132,5376	52,35928	
58	98922,12800,97513	6 75566,81609	6 82927,90469	9,99529,34503,1918	10,82966,83088	34:48
	2,55716,33231	813,04637	804,27239	1,12267,7299	52,29892	
57	98919,57084,64282	6 74753,76972	6 82123,63230	9,99528,22235,4619	10,82914,53196	34:12
	2,56017,65856	811,13364	802,35953	1,12402,9293	52,23873	
56	98917,01066,98426	6 73942,63608	6 81321,27277	9,99527,09832,5326	10,82862,29323	33:36
	2,56318,97700	809,22768	800,45347	1,12538,1356	52,17867	
55	98914,44748,00726	6 73133,40840	6 80520,81930	9,99525,97294,3970	10,82810,11456	33: 0
	2,56620,28764	807,32849	798,55416	1,12673,3489	52,11875	
54	98911,88127,71962	6 72326,07991	6 79722,26514	9,99524,84621,0481	10,82757,99581	32:24
	2,56921,59046	805,43602	796,66158	1,12808,5694	52,05898	
53	98909,31206,12916	6 71520,64389	6 78925,60356	9,99523,71812,4787	10,82705,93683	31:48
	2,57222,88546	803,55025	794,77569	1,12943,7967	51,99936	
52	98906,73983,24370	6 70717,09364	6 78130,82787	9,99522,58868,6820	10,82653,93747	31:12
	2,57524,17261	801,67114	792,89648	1,13079,0312	51,93987	
51	98904,16459,07109	6 69915,42250	6 77337,93139	9,99521,45789,6508	10,82601,99760	30:36
	2,57825,45192	799,79867	791,02388	1,13214,2726	51,88052	
50	98901,58633,61917	6 69115,62383	6 76546,90751	9,99520,32575,3782	10,82550,11708	30: 0
	2,58126,72339	797,93279	789,15790	1,13349,5212	51,82133	
49	98899,00506,89578	6 68317,69104	6 75757,74961	9,99519,19225,8570	10,82498,29575	29:24
	2,58427,98698	796,07349	787,29848	1,13484,7767	51,76227	
48	98896,42078,90880	6 67521,61755	6 74970,45113	9,99518,05741,0803	10,82446,53348	28:48
	2,58729,24270	794,22072	785,44560	1,13620,0394	51,70335	
47	98893,83349,66610	6 66727,39683	6 74185,00553	9,99516,92121,0409	10,82394,83013	28:12
	2,59030,49055	792,37447	783,59923	1,13755,3091	51,64457	
46	98891,24319,17555	6 65935,02236	6 73401,40630	9,99515,78365,7318	10,82343,18556	27:36
	2,59331,73050	790,53469	781,75934	1,13890,5860	51,58593	
45	98888,64987,44505	6 65144,48767	6 72619,64696	9,99514,64475,1458	10,82291,59963	27: 0
	2,59632,96256	788,70137	779,92590	1,14025,8698	51,52744	
44	98886,05354,48249	6 64355,78630	6 71839,72106	9,99513,50449,2760	10,82240,07219	26:24
	2,59934,18670	786,87445	778,09887	1,14161,1609	51,46907	
43	98883,45420,29579	6 63568,91185	6 71061,62219	9,99512,36288,1151	10,82188,60312	25:48
	2,60235,40292	785,05393	776,27823	1,14296,4590	51,41085	
42	98880,85184,89287	6 62783,85792	6 70285,34396	9,99511,21991,6561	10,82137,19227	25:12
	2,60536,61123	783,23976	774,46396	1,14431,7643	51,35277	
41	98878,24648,28164	6 62000,61816	6 69510,88000	9,99510,07559,8918	10,82085,83950	24:36
	2,60837,81158	781,43193	772,65600	1,14567,0766	51,29482	
40	98875,63810,47006	6 61219,18623	6 68738,22400	9,99508,92992,8152	10,82034,54468	24: 0
	2,61139,00400	779,63039	770,85435	1,14702,3961	51,23701	
39	98873,02671,46606	6 60439,55584	6 67967,36965	9,99507,78290,4191	10,81983,30767	23:24
	2,61440,18847	777,83513	769,05897	1,14837,7229	51,17934	
38	98870,41231,27759	6 59661,72071	6 67198,31068	9,99506,63452,6962	10,81932,12833	22:48
	2,61741,36496	776,04610	767,26983	1,14973,0566	51,12180	
37	98867,79489,91263	6 58885,67461	6 66431,04085	9,99505,48479,6396	10,81881,00653	22:12
	2,62042,53349	774,26328	765,48690	1,15108,3976	51,06440	
36	98865,17447,37914	6 58111,41133	6 65665,55395	9,99504,33371,2420	10,81829,94213	21:36
	2,62343,69403	772,48666	763,71015	1,15243,7458	51,00713	
35	98862,55103,68511	6 57338,92467	6 64901,84380	9,99503,18127,4962	10,81778,93500	21: 0
	2,62644,84658	770,71618	761,93957	1,15379,1012	50,95000	
34	98859,92458,83853	6 56568,20849	6 64139,90423	9,99502,02748,3950	10,81727,98500	20:24
	2,62945,99114	768,95184	760,17509	1,15514,4637	50,89299	

GRAD. 81.

8. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	15074,32253,47543	15248,56867	1 01155,91355	9,17823,78033,3099	9,18322,90799	40:12
	17,25362,32134	17,85959	2,69375	49,67963,4927	50,83614	
68	15091,57615,79677	15266,42826	1 01158,60730	9,17873,45996,8026	9,18373,74413	40:48
	17,25316,34978	17,86054	2,69698	49,62154,9106	50,77940	
69	15108,82932,14655	15284,28880	1 01161,30428	9,17923,08151,7132	9,18424,52353	41:24
	17,25270,32564	17,86150	2,70021	49,56359,5868	50,72280	
70	15126,08202,47219	15302,15030	1 01164,00449	9,17972,64511,3000	9,18475,24633	42: 0
	17,25224,24897	17,86245	2,70343	49,50577,4758	50,66633	
71	15143,33426,72116	15320,01275	1 01166,70792	9,18022,15088,7758	9,18525,91266	42:36
	17,25178,11973	17,86340	2,70665	49,44808,5320	50,61000	
72	15160,58604,84089	15337,87615	1 01169,41457	9,18071,59897,3078	9,18576,52266	43:12
	17,25131,93794	17,86436	2,70988	49,39052,7100	50,55380	
73	15177,83736,77883	15355,74051	1 01172,12445	9,18120,98950,0178	9,18627,07646	43:48
	17,25085,70361	17,86532	2,71311	49,33309,9649	50,49772	
74	15195,08822,48244	15373,60583	1 01174,83756	9,18170,32259,9827	9,18677,57418	44:24
	17,25039,41673	17,86628	2,71634	49,27580,2518	50,44178	
75	15212,33861,89917	15391,47211	1 01177,55390	9,18219,59840,2345	9,18728,01596	45: 0
	17,24993,07729	17,86723	2,71957	49,21863,5261	50,38597	
76	15229,58854,97646	15409,33934	1 01180,27347	9,18268,81703,7606	9,18778,40193	45:36
	17,24946,68531	17,86820	2,72279	49,16159,7431	50,33028	
77	15246,83801,66177	15427,20754	1 01182,99626	9,18317,97863,5037	9,18828,73221	46:12
	17,24900,24078	17,86916	2,72602	49,10468,8589	50,27473	
78	15264,08701,90255	15445,07670	1 01185,72228	9,18367,08332,3626	9,18879,00694	46:48
	17,24853,74372	17,87012	2,72926	49,04790,8292	50,21930	
79	15281,33555,64627	15462,94682	1 01188,45154	9,18416,13123,1918	9,18929,22624	47:24
	17,24807,19411	17,87109	2,73248	48,99125,6102	50,16400	
80	15298,58362,84038	15480,81791	1 01191,18402	9,18465,12248,8020	9,18979,39024	48: 0
	17,24760,59196	17,87206	2,73571	48,93473,1583	50,10884	
81	15315,83123,43234	15498,68997	1 01193,91973	9,18514,05721,9603	9,19029,49908	48:36
	17,24713,93727	17,87302	2,73894	48,87833,4300	50,05379	
82	15333,07837,36961	15516,56299	1 01196,65867	9,18562,93555,3903	9,19079,55287	49:12
	17,24667,23004	17,87398	2,74218	48,82206,3822	49,99887	
83	15350,32504,59965	15534,43697	1 01199,40085	9,18611,75761,7725	9,19129,55174	49:48
	17,24620,47027	17,87496	2,74540	48,76591,9715	49,94409	
84	15367,57125,06992	15552,31193	1 01202,14625	9,18660,52353,7440	9,19179,49583	50:24
	17,24573,65798	17,87593	2,74864	48,70990,1554	49,88943	
85	15384,81698,72790	15570,18786	1 01204,89489	9,18709,23343,8994	9,19229,38526	51: 0
	17,24526,79315	17,87690	2,75187	48,65400,8910	49,83488	
86	15402,06225,52105	15588,06476	1 01207,64676	9,18757,88744,7904	9,19279,22014	51:36
	17,24479,87578	17,87787	2,75510	48,59824,1359	49,78048	
87	15419,30705,39683	15605,94263	1 01210,40186	9,18806,48568,9263	9,19329,00062	52:12
	17,24432,90588	17,87885	2,75834	48,54259,8479	49,72618	
88	15436,55138,30271	15623,82148	1 01213,16020	9,18855,02828,7742	9,19378,72680	52:48
	17,24385,88346	17,87982	2,76157	48,48707,9847	49,67202	
89	15453,79524,18617	15641,70130	1 01215,92177	9,18903,51536,7589	9,19428,39882	53:24
	17,24338,80851	17,88080	2,76480	48,43168,5045	49,61799	
90	15471,03862,99468	15659,58210	1 01218,68657	9,18951,94705,2634	9,19478,01681	54: 0
	17,24291,68103	17,88178	2,76804	48,37641,3656	49,56406	
91	15488,28154,67571	15677,46388	1 01221,45461	9,19000,32346,6290	9,19527,58087	54:36
	17,24244,50103	17,88275	2,77127	48,32126,5265	49,51028	
92	15505,52399,17674	15695,34663	1 01224,22588	9,19048,64473,1555	9,19577,09115	55:12
	17,24197,26850	17,88373	2,77451	48,26623,9458	49,45660	
93	15522,76596,44524	15713,23036	1 01227,00039	9,19096,91097,1013	9,19626,54775	55:48
	17,24149,98345	17,88472	2,77775	48,21133,5823	49,40306	
94	15540,00746,42869	15731,11508	1 01229,77814	9,19145,12230,6836	9,19675,95081	56:24
	17,24102,64588	17,88570	2,78098	48,15655,3951	49,34963	
95	15557,24849,07457	15749,00078	1 01232,55912	9,19193,27886,0787	9,19725,30044	57: 0
	17,24055,25579	17,88668	2,78421	48,10189,3433	49,29632	
96	15574,48904,33036	15766,88746	1 01235,34333	9,19241,38075,4220	9,19774,59676	57:36
	17,24007,81319	17,88766	2,78746	48,04735,3865	49,24314	
97	15591,72912,14355	15784,77512	1 01238,13079	9,19289,42810,8085	9,19823,83990	58:12
	17,23960,31806	17,88865	2,79069	47,99293,4840	49,19008	
98	15608,96872,46161	15802,66377	1 01240,92148	9,19337,42104,2925	9,19873,02998	58:48
	17,23912,77042	17,88964	2,79393	47,93863,5958	49,13714	
99	15626,20785,23203	15820,55341	1 01243,71541	9,19385,35967,8883	9,19922,16712	59:24
	17,23865,17028	17,89062	2,79717	47,88445,6816	49,08431	
100	15643,44650,40231	15838,44403	1 01246,51258	9,19433,24413,5699	9,19971,25143	60: 0
	17,23817,51761	17,89162	2,80041	47,83039,7017	49,03161	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	98857,29512,84739	6 55799,25665	6 63379,72914	9,99500,87233,9313	10,81677,09201	19:48
	2,63247,12767	767,19358	758,41674	1,15649,8334	50,83614	
32	98854,66265,71972	6 55032,06307	6 62621,31240	9,99499,71584,0979	10,81626,25587	19:12
	2,63548,25620	765,44141	756,66444	1,15785,2104	50,77940	
31	98852,02717,46352	6 54266,62166	6 61864,64796	9,99498,55798,8875	10,81575,47647	18:36
	2,63849,37668	763,69526	754,91818	1,15920,5946	50,72280	
30	98849,38868,08684	6 53502,92640	6 61109,72978	9,99497,39878,2929	10,81524,75367	18: 0
	2,64150,48915	761,95515	753,17794	1,16055,9859	50,66633	
29	98846,74717,59769	6 52740,97125	6 60356,55184	9,99496,23822,3070	10,81474,08734	17:24
	2,64451,59356	760,22100	751,44370	1,16191,3846	50,61000	
28	98844,10266,00413	6 51980,75025	6 59605,10814	9,99495,07630,9224	10,81423,47734	16:48
	2,64752,68991	758,49284	749,71539	1,16326,7905	50,55380	
27	98841,45513,31422	6 51222,25741	6 58855,39275	9,99493,91304,1319	10,81372,92354	16:12
	2,65053,77820	756,77058	747,99304	1,16462,2036	50,49772	
26	98838,80459,53602	6 50465,48683	6 58107,39971	9,99492,74841,9283	10,81322,42582	15:36
	2,65354,85841	755,05425	746,27658	1,16597,6240	50,44178	
25	98836,15104,67761	6 49710,43258	6 57361,12313	9,99491,58244,3043	10,81271,98404	15: 0
	2,65655,93055	753,34379	744,56600	1,16733,0517	50,38597	
24	98833,49448,74706	6 48957,08879	6 56616,55713	9,99490,41511,2526	10,81221,59807	14:24
	2,65956,99459	751,63918	742,86128	1,16868,4866	50,33028	
23	98830,83491,75247	6 48205,44961	6 55873,69585	9,99489,24642,7660	10,81171,26779	13:48
	2,66258,05053	749,94039	741,16237	1,17003,9289	50,27473	
22	98828,17233,70194	6 47455,50922	6 55132,53348	9,99488,07638,8371	10,81120,99306	13:12
	2,66559,09835	748,24740	739,46927	1,17139,3784	50,21930	
21	98825,50674,60359	6 46707,26182	6 54393,06421	9,99486,90499,4587	10,81070,77376	12:36
	2,66860,13806	746,56020	737,78194	1,17274,8352	50,16400	
20	98822,83814,46553	6 45960,70162	6 53655,28227	9,99485,73224,6235	10,81020,60976	12: 0
	2,67161,16964	744,87872	736,10035	1,17410,2994	50,10884	
19	98820,16653,29589	6 45215,82290	6 52919,18192	9,99484,55814,3241	10,80970,50092	11:24
	2,67462,19309	743,20297	734,42448	1,17545,7709	50,05379	
18	98817,49191,10280	6 44472,61993	6 52184,75744	9,99483,38268,5532	10,80920,44713	10:48
	2,67763,20837	741,53291	732,75430	1,17681,2497	49,99887	
17	98814,81427,89443	6 43731,08702	6 51452,00314	9,99482,20587,3035	10,80870,44826	10:12
	2,68064,21551	739,86853	731,08980	1,17816,7358	49,94409	
16	98812,13363,67892	6 42991,21849	6 50720,91334	9,99481,02770,5677	10,80820,50417	9:36
	2,68365,21449	738,20978	729,43094	1,17952,2294	49,88943	
15	98809,44998,46443	6 42253,00871	6 49991,48240	9,99479,84818,3383	10,80770,61474	9: 0
	2,68666,20528	736,55666	727,77769	1,18087,7302	49,83488	
14	98806,76332,25915	6 41516,45205	6 49263,70471	9,99478,66730,6081	10,80720,77986	8:24
	2,68967,18789	734,90911	726,13003	1,18223,2385	49,78048	
13	98804,07365,07126	6 40781,54294	6 48537,57468	9,99477,48507,3696	10,80670,99938	7:48
	2,69268,16231	733,26715	724,48794	1,18358,7541	49,72618	
12	98801,38096,90895	6 40048,27579	6 47813,08674	9,99476,30148,6155	10,80621,27320	7:12
	2,69569,12853	731,63071	722,85140	1,18494,2771	49,67202	
11	98798,68527,78042	6 39316,64508	6 47090,23534	9,99475,11654,3384	10,80571,60118	6:36
	2,69870,08653	729,99980	721,22036	1,18629,8075	49,61799	
10	98795,98657,69389	6 38586,64528	6 46369,01498	9,99473,93024,5309	10,80521,98319	6: 0
	2,70171,03632	728,37438	719,59482	1,18765,3452	49,56406	
9	98793,28486,65757	6 37858,27090	6 45649,42016	9,99472,74259,1857	10,80472,41913	5:24
	2,70471,97787	726,75442	717,97474	1,18900,8906	49,51028	
8	98790,58014,67970	6 37131,51648	6 44931,44542	9,99471,55358,2951	10,80422,90885	4:48
	2,70772,91118	725,13991	716,36011	1,19036,4431	49,45660	
7	98787,87241,76852	6 36406,37657	6 44215,08531	9,99470,36321,8520	10,80373,45225	4:12
	2,71073,83626	723,53082	714,75090	1,19172,0032	49,40306	
6	98785,16167,93226	6 35682,84575	6 43500,33441	9,99469,17149,8488	10,80324,04919	3:36
	2,71374,75306	721,92711	713,14708	1,19307,5708	49,34963	
5	98782,44793,17920	6 34960,91864	6 42787,18733	9,99467,97842,2780	10,80274,69956	3: 0
	2,71675,66161	720,32878	711,54862	1,19443,1457	49,29632	
4	98779,73117,51759	6 34240,58986	6 42075,63871	9,99466,78399,1323	10,80225,40324	2:24
	2,71976,56188	718,73580	709,95553	1,19578,7281	49,24314	
3	98777,01140,95571	6 33521,85406	6 41365,68318	9,99465,58820,4042	10,80176,16010	1:48
	2,72277,45385	717,14814	708,36773	1,19714,3180	49,19008	
2	98774,28863,50186	6 32804,70592	6 40657,31545	9,99464,39106,0862	10,80126,97002	1:12
	2,72578,33755	715,56577	706,78526	1,19849,9153	49,13714	
1	98771,56285,16431	6 32089,14015	6 39950,53019	9,99463,19256,1709	10,80077,83288	0:36
	2,72879,21293	713,98868	705,20804	1,19985,5202	49,08431	
0	98768,83405,95138	6 31375,15147	6 39245,32215	9,99461,99270,6507	10,80028,74857	0: 0
	2,73180,08001	712,41685	703,63608	1,20121,1325	49,03161	

GRAD. 81.

9. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
0	15643,44650,40231	15838,44403	1 01246,51258	9,19433,24413,5699	9,19971,25143	0: 0
	17,23817,51761	17,89162	2,80041	47,83039,7017	49,03161	
1	15660,68467,91992	15856,33565	1 01249,31299	9,19481,07453,2716	9,20020,28304	0:36
	17,23769,81244	17,89260	2,80364	47,77645,6162	48,97902	
2	15677,92237,73236	15874,22825	1 01252,11663	9,19528,85098,8878	9,20069,26206	1:12
	17,23722,05475	17,89360	2,80689	47,72263,3857	48,92656	
3	15695,15959,78711	15892,12185	1 01254,92352	9,19576,57362,2735	9,20118,18862	1:48
	17,23674,24457	17,89459	2,81013	47,66892,9709	48,87421	
4	15712,39634,03168	15910,01644	1 01257,73365	9,19624,24255,2444	9,20167,06283	2:24
	17,23626,38187	17,89558	2,81336	47,61534,3324	48,82198	
5	15729,63260,41355	15927,91202	1 01260,54701	9,19671,85789,5768	9,20215,88481	3: 0
	17,23578,46666	17,89658	2,81661	47,56187,4313	48,76987	
6	15746,86838,88021	15945,80860	1 01263,36362	9,19719,41977,0081	9,20264,65468	3:36
	17,23530,49897	17,89757	2,81985	47,50852,2287	48,71787	
7	15764,10369,37918	15963,70617	1 01266,18347	9,19766,92829,2368	9,20313,37255	4:12
	17,23482,47876	17,89857	2,82309	47,45528,6860	48,66599	
8	15781,33851,85794	15981,60474	1 01269,00656	9,19814,38357,9228	9,20362,03854	4:48
	17,23434,40605	17,89957	2,82634	47,40216,7646	48,61423	
9	15798,57286,26399	15999,50431	1 01271,83290	9,19861,78574,6874	9,20410,65277	5:24
	17,23386,28085	17,90057	2,82957	47,34916,4263	48,56259	
10	15815,80672,54484	16017,40488	1 01274,66247	9,19909,13491,1137	9,20459,21536	6: 0
	17,23338,10314	17,90157	2,83282	47,29627,6329	48,51105	
11	15833,04010,64798	16035,30645	1 01277,49529	9,19956,43118,7466	9,20507,72641	6:36
	17,23289,87295	17,90257	2,83607	47,24350,3462	48,45964	
12	15850,27300,52093	16053,20902	1 01280,33136	9,20003,67469,0928	9,20556,18605	7:12
	17,23241,59025	17,90358	2,83931	47,19084,5286	48,40833	
13	15867,50542,11118	16071,11260	1 01283,17067	9,20050,86553,6214	9,20604,59438	7:48
	17,23193,25507	17,90458	2,84255	47,13830,1424	48,35715	
14	15884,73735,36625	16089,01718	1 01286,01322	9,20098,00383,7638	9,20652,95153	8:24
	17,23144,86739	17,90558	2,84580	47,08587,1500	48,30608	
15	15901,96880,23364	16106,92276	1 01288,85902	9,20145,08970,9138	9,20701,25761	9: 0
	17,23096,42723	17,90659	2,84904	47,03355,5141	48,25512	
16	15919,19976,66087	16124,82935	1 01291,70806	9,20192,12326,4279	9,20749,51273	9:36
	17,23047,93457	17,90760	2,85229	46,98135,1976	48,20427	
17	15936,43024,59544	16142,73695	1 01294,56035	9,20239,10461,6255	9,20797,71700	10:12
	17,22999,38942	17,90861	2,85554	46,92926,1634	48,15354	
18	15953,66023,98486	16160,64556	1 01297,41589	9,20286,03387,7889	9,20845,87054	10:48
	17,22950,79180	17,90962	2,85878	46,87728,3746	48,10291	
19	15970,88974,77666	16178,55518	1 01300,27467	9,20332,91116,1635	9,20893,97345	11:24
	17,22902,14169	17,91063	2,86203	46,82541,7946	48,05241	
20	15988,11876,91835	16196,46581	1 01303,13670	9,20379,73657,9581	9,20942,02586	12: 0
	17,22853,43909	17,91165	2,86528	46,77366,3869	48,00202	
21	16005,34730,35744	16214,37746	1 01306,00198	9,20426,51024,3450	9,20990,02788	12:36
	17,22804,68402	17,91265	2,86852	46,72202,1151	47,95173	
22	16022,57535,04146	16232,29011	1 01308,87050	9,20473,23226,4601	9,21037,97961	13:12
	17,22755,87646	17,91367	2,87178	46,67048,9429	47,90155	
23	16039,80290,91792	16250,20378	1 01311,74228	9,20519,90275,4030	9,21085,88116	13:48
	17,22707,01642	17,91469	2,87502	46,61906,8343	47,85149	
24	16057,02997,93434	16268,11847	1 01314,61730	9,20566,52182,2373	9,21133,73265	14:24
	17,22658,10392	17,91571	2,87827	46,56775,7534	47,80154	
25	16074,25656,03826	16286,03418	1 01317,49557	9,20613,08957,9907	9,21181,53419	15: 0
	17,22609,13893	17,91672	2,88153	46,51655,6644	47,75170	
26	16091,48265,17719	16303,95090	1 01320,37710	9,20659,60613,6551	9,21229,28589	15:36
	17,22560,12147	17,91775	2,88477	46,46546,5319	47,70196	
27	16108,70825,29866	16321,86865	1 01323,26187	9,20706,07160,1870	9,21276,98785	16:12
	17,22511,05155	17,91876	2,88803	46,41448,3201	47,65234	
28	16125,93336,35021	16339,78741	1 01326,14990	9,20752,48608,5071	9,21324,64019	16:48
	17,22461,92913	17,91979	2,89127	46,36360,9941	47,60282	
29	16143,15798,27934	16357,70720	1 01329,04117	9,20798,84969,5012	9,21372,24301	17:24
	17,22412,75427	17,92081	2,89453	46,31284,5185	47,55342	
30	16160,38211,03361	16375,62801	1 01331,93570	9,20845,16254,0197	9,21419,79643	18: 0
	17,22363,52693	17,92183	2,89778	46,26218,8584	47,50412	
31	16177,60574,56054	16393,54984	1 01334,83348	9,20891,42472,8781	9,21467,30055	18:36
	17,22314,24712	17,92286	2,90103	46,21163,9789	47,45492	
32	16194,82888,80766	16411,47270	1 01337,73451	9,20937,63636,8570	9,21514,75547	19:12
	17,22264,91486	17,92389	2,90429	46,16119,8456	47,40585	
33	16212,05153,72252	16429,39659	1 01340,63880	9,20983,79756,7026	9,21562,16132	19:48
	17,22215,53012	17,92492	2,90754	46,11086,4235	47,35687	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
100	98768,83405,95138	6 31375,15147	6 39245,32215	9,99461,99270,6507	10,80028,74857	60: 0
	2,73180,08001	712,41685	703,63608	1,20121,1325	49,03161	
99	98766,10225,87137	6 30662,73462	6 38541,68607	9,99460,79149,5182	10,79979,71696	59:24
	2,73480,93875	710,85023	702,06936	1,20256,7524	48,97902	
98	98763,36744,93262	6 29951,88439	6 37839,61671	9,99459,58892,7658	10,79930,73794	58:48
	2,73781,78918	709,28883	700,50782	1,20392,3797	48,92656	
97	98760,62963,14344	6 29242,59556	6 37139,10889	9,99458,38500,3861	10,79881,81138	58:12
	2,74082,63126	707,73260	698,95149	1,20528,0146	48,87421	
96	98757,88880,51218	6 28534,86296	6 36440,15740	9,99457,17972,3715	10,79832,93717	57:36
	2,74383,46499	706,18154	697,40030	1,20663,6570	48,82198	
95	98755,14497,04719	6 27828,68142	6 35742,75710	9,99455,97308,7145	10,79784,11519	57: 0
	2,74684,29037	704,63561	695,85424	1,20799,3069	48,76987	
94	98752,39812,75682	6 27124,04581	6 35046,90286	9,99454,76509,4076	10,79735,34532	56:24
	2,74985,10737	703,09480	694,31332	1,20934,9644	48,71787	
93	98749,64827,64945	6 26420,95101	6 34352,58954	9,99453,55574,4432	10,79686,62745	55:48
	2,75285,91600	701,55908	692,77746	1,21070,6294	48,66599	
92	98746,89541,73345	6 25719,39193	6 33659,81208	9,99452,34503,8138	10,79637,96146	55:12
	2,75586,71624	700,02842	691,24669	1,21206,3020	48,61423	
91	98744,13955,01721	6 25019,36351	6 32968,56539	9,99451,13297,5118	10,79589,34723	54:36
	2,75887,50810	698,50281	689,72097	1,21341,9822	48,56259	
90	98741,38067,50911	6 24320,86070	6 32278,84442	9,99449,91955,5296	10,79540,78464	54: 0
	2,76188,29154	696,98223	688,20025	1,21477,6700	48,51105	
89	98738,61879,21757	6 23623,87847	6 31590,64417	9,99448,70477,8596	10,79492,27359	53:24
	2,76489,06657	695,46664	686,68455	1,21613,3653	48,45964	
88	98735,85390,15100	6 22928,41183	6 30903,95962	9,99447,48864,4943	10,79443,81395	52:48
	2,76789,83318	693,95605	685,17383	1,21749,0682	48,40833	
87	98733,08600,31782	6 22234,45578	6 30218,78579	9,99446,27115,4261	10,79395,40562	52:12
	2,77090,59136	692,45040	683,66806	1,21884,7788	48,35715	
86	98730,31509,72646	6 21542,00538	6 29535,11773	9,99445,05230,6473	10,79347,04847	51:36
	2,77391,34109	690,94970	682,16724	1,22020,4970	48,30608	
85	98727,54118,38537	6 20851,05568	6 28852,95049	9,99443,83210,1503	10,79298,74239	51: 0
	2,77692,08239	689,45390	680,67132	1,22156,2228	48,25512	
84	98724,76426,30298	6 20161,60178	6 28172,27917	9,99442,61053,9275	10,79250,48727	50:24
	2,77992,81521	687,96301	679,18030	1,22291,9562	48,20427	
83	98721,98433,48777	6 19473,63877	6 27493,09887	9,99441,38761,9713	10,79202,28300	49:48
	2,78293,53958	686,47698	677,69415	1,22427,6973	48,15354	
82	98719,20139,94819	6 18787,16179	6 26815,40472	9,99440,16334,2740	10,79154,12946	49:12
	2,78594,25546	684,99581	676,21286	1,22563,4460	48,10291	
81	98716,41545,69273	6 18102,16598	6 26139,19186	9,99438,93770,8280	10,79106,02655	48:36
	2,78894,96285	683,51947	674,73639	1,22699,2024	48,05241	
80	98713,62650,72988	6 17418,64651	6 25464,45547	9,99437,71071,6256	10,79057,97414	48: 0
	2,79195,66176	682,04793	673,26473	1,22834,9665	48,00202	
79	98710,83455,06812	6 16736,59858	6 24791,19074	9,99436,48236,6591	10,79009,97212	47:24
	2,79496,35215	680,58119	671,79786	1,22970,7382	47,95173	
78	98708,03958,71597	6 16056,01739	6 24119,39288	9,99435,25265,9209	10,78962,02039	46:48
	2,79797,03403	679,11921	670,33577	1,23106,5176	47,90155	
77	98705,24161,68194	6 15376,89818	6 23449,05711	9,99434,02159,4033	10,78914,11884	46:12
	2,80097,70740	677,66198	668,87841	1,23242,3048	47,85149	
76	98702,44063,97454	6 14699,23620	6 22780,17870	9,99432,78917,0985	10,78866,26735	45:36
	2,80398,37222	676,20947	667,42578	1,23378,0997	47,80154	
75	98699,63665,60232	6 14023,02673	6 22112,75292	9,99431,55538,9988	10,78818,46581	45: 0
	2,80699,02851	674,76168	665,97785	1,23513,9021	47,75170	
74	98696,82966,57381	6 13348,26505	6 21446,77507	9,99430,32025,0967	10,78770,71411	44:24
	2,80999,67624	673,31856	664,53462	1,23649,7125	47,70196	
73	98694,01966,89757	6 12674,94649	6 20782,24045	9,99429,08375,3842	10,78723,01215	43:48
	2,81300,31542	671,88012	663,09605	1,23785,5305	47,65234	
72	98691,20666,58215	6 12003,06637	6 20119,14440	9,99427,84589,8537	10,78675,35981	43:12
	2,81600,94602	670,44631	661,66212	1,23921,3562	47,60282	
71	98688,39065,63613	6 11332,62006	6 19457,48228	9,99426,60668,4975	10,78627,75699	42:36
	2,81901,56806	669,01714	660,23283	1,24057,1898	47,55342	
70	98685,57164,06807	6 10663,60292	6 18797,24945	9,99425,36611,3077	10,78580,20357	42: 0
	2,82202,18149	667,59257	658,80812	1,24193,0310	47,50412	
69	98682,74961,88658	6 09996,01035	6 18138,44133	9,99424,12418,2767	10,78532,69945	41:24
	2,82502,78634	666,17258	657,38802	1,24328,8800	47,45492	
68	98679,92459,10024	6 09329,83777	6 17481,05331	9,99422,88089,3967	10,78485,24453	40:48
	2,82803,38258	664,75716	655,97247	1,24464,7369	47,40585	
67	98677,09655,71766	6 08665,08061	6 16825,08084	9,99421,63624,6598	10,78437,83868	40:12
	2,83103,97020	663,34629	654,56148	1,24600,6014	47,35687	

GRAD. 80.

9. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	16212,05153,72252	16429,39659	1 01340,63880	9,20983,79756,7026	9,21562,16132	19:48
	17,22215,53012	17,92492	2,90754	46,11086,4235	47,35687	
34	16229,27369,25264	16447,32151	1 01343,54634	9,21029,90843,1261	9,21609,51819	20:24
	17,22166,09292	17,92594	2,91079	46,06063,6786	47,30800	
35	16246,49535,34556	16465,24745	1 01346,45713	9,21075,96906,8047	9,21656,82619	21: 0
	17,22116,60328	17,92697	2,91405	46,01051,5765	47,25924	
36	16263,71651,94884	16483,17442	1 01349,37118	9,21121,97958,3812	9,21704,08543	21:36
	17,22067,06115	17,92801	2,91731	45,96050,0831	47,21058	
37	16280,93719,00999	16501,10243	1 01352,28849	9,21167,94008,4643	9,21751,29601	22:12
	17,22017,46659	17,92904	2,92056	45,91059,1644	47,16204	
38	16298,15736,47658	16519,03147	1 01355,20905	9,21213,85067,6287	9,21798,45805	22:48
	17,21967,81956	17,93007	2,92381	45,86078,7868	47,11359	
39	16315,37704,29614	16536,96154	1 01358,13286	9,21259,71146,4155	9,21845,57164	23:24
	17,21918,12008	17,93111	2,92707	45,81108,9164	47,06524	
40	16332,59622,41622	16554,89265	1 01361,05993	9,21305,52255,3319	9,21892,63688	24: 0
	17,21868,36815	17,93214	2,93033	45,76149,5198	47,01702	
41	16349,81490,78437	16572,82479	1 01363,99026	9,21351,28404,8517	9,21939,65390	24:36
	17,21818,56376	17,93318	2,93359	45,71200,5636	46,96888	
42	16367,03309,34813	16590,75797	1 01366,92385	9,21396,99605,4153	9,21986,62278	25:12
	17,21768,70693	17,93422	2,93684	45,66262,0146	46,92086	
43	16384,25078,05506	16608,69219	1 01369,86069	9,21442,65867,4299	9,22033,54364	25:48
	17,21718,79765	17,93526	2,94010	45,61333,8397	46,87293	
44	16401,46796,85271	16626,62745	1 01372,80079	9,21488,27201,2696	9,22080,41657	26:24
	17,21668,83592	17,93630	2,94336	45,56416,0059	46,82512	
45	16418,68465,68863	16644,56375	1 01375,74415	9,21533,83617,2755	9,22127,24169	27: 0
	17,21618,82175	17,93734	2,94662	45,51508,4804	46,77740	
46	16435,90084,51038	16662,50109	1 01378,69077	9,21579,35125,7559	9,22174,01909	27:36
	17,21568,75512	17,93839	2,94988	45,46611,2305	46,72979	
47	16453,11653,26550	16680,43948	1 01381,64065	9,21624,81736,9864	9,22220,74888	28:12
	17,21518,63607	17,93943	2,95314	45,41724,2238	46,68228	
48	16470,33171,90157	16698,37891	1 01384,59379	9,21670,23461,2102	9,22267,43116	28:48
	17,21468,46457	17,94048	2,95640	45,36847,4277	46,63487	
49	16487,54640,36614	16716,31939	1 01387,55019	9,21715,60308,6379	9,22314,06603	29:24
	17,21418,24064	17,94152	2,95966	45,31980,8101	46,58756	
50	16504,76058,60678	16734,26091	1 01390,50985	9,21760,92289,4480	9,22360,65359	30: 0
	17,21367,96425	17,94257	2,96293	45,27124,3389	46,54036	
51	16521,97426,57103	16752,20348	1 01393,47278	9,21806,19413,7869	9,22407,19395	30:36
	17,21317,63545	17,94362	2,96618	45,22277,9818	46,49325	
52	16539,18744,20648	16770,14710	1 01396,43896	9,21851,41691,7687	9,22453,68720	31:12
	17,21267,25420	17,94467	2,96945	45,17441,7073	46,44626	
53	16556,40011,46068	16788,09177	1 01399,40841	9,21896,59133,4760	9,22500,13346	31:48
	17,21216,82052	17,94572	2,97271	45,12615,4835	46,39935	
54	16573,61228,28120	16806,03749	1 01402,38112	9,21941,71748,9595	9,22546,53281	32:24
	17,21166,33441	17,94678	2,97597	45,07799,2788	46,35254	
55	16590,82394,61561	16823,98427	1 01405,35709	9,21986,79548,2383	9,22592,88535	33: 0
	17,21115,79587	17,94783	2,97924	45,02993,0619	46,30585	
56	16608,03510,41148	16841,93210	1 01408,33633	9,22031,82541,3002	9,22639,19120	33:36
	17,21065,20490	17,94888	2,98250	44,98196,8013	46,25925	
57	16625,24575,61638	16859,88098	1 01411,31883	9,22076,80738,1015	9,22685,45045	34:12
	17,21014,56151	17,94994	2,98577	44,93410,4658	46,21274	
58	16642,45590,17789	16877,83092	1 01414,30460	9,22121,74148,5673	9,22731,66319	34:48
	17,20963,86569	17,95100	2,98903	44,88634,0244	46,16634	
59	16659,66554,04358	16895,78192	1 01417,29363	9,22166,62782,5917	9,22777,82953	35:24
	17,20913,11744	17,95206	2,99229	44,83867,4462	46,12003	
60	16676,87467,16102	16913,73398	1 01420,28592	9,22211,46650,0379	9,22823,94956	36: 0
	17,20862,31678	17,95311	2,99557	44,79110,7004	46,07382	
61	16694,08329,47780	16931,68709	1 01423,28149	9,22256,25760,7383	9,22870,02338	36:36
	17,20811,46370	17,95418	2,99883	44,74363,7561	46,02772	
62	16711,29140,94150	16949,64127	1 01426,28032	9,22301,00124,4944	9,22916,05110	37:12
	17,20760,55819	17,95524	3,00210	44,69626,5830	45,98171	
63	16728,49901,49969	16967,59651	1 01429,28242	9,22345,69751,0774	9,22962,03281	37:48
	17,20709,60027	17,95630	3,00536	44,64899,1507	45,93579	
64	16745,70611,09996	16985,55281	1 01432,28778	9,22390,34650,2281	9,23007,96860	38:24
	17,20658,58993	17,95737	3,00863	44,60181,4286	45,88998	
65	16762,91269,68989	17003,51018	1 01435,29641	9,22434,94831,6567	9,23053,85858	39: 0
	17,20607,52717	17,95844	3,01191	44,55473,3868	45,84426	
66	16780,11877,21706	17021,46862	1 01438,30832	9,22479,50305,0435	9,23099,70284	39:36
	17,20556,41202	17,95950	3,01517	44,50774,9951	45,79863	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	98677,09655,71766	6 08665,08061	6 16825,08084	9,99421,63624,6598	10,78437,83868	40:12
	2,83103,97020	663,34629	654,56148	1,24600,6014	47,35687	
66	98674,26551,74746	6 08001,73432	6 16170,51936	9,99420,39024,0584	10,78390,48181	39:36
	2,83404,54921	661,93995	653,15500	1,24736,4739	47,30800	
65	98671,43147,19825	6 07339,79437	6 15517,36436	9,99419,14287,5845	10,78343,17381	39: 0
	2,83705,11957	660,53811	651,75305	1,24872,3541	47,25924	
64	98668,59442,07868	6 06679,25626	6 14865,61131	9,99417,89415,2304	10,78295,91457	38:24
	2,84005,68130	659,14076	650,35556	1,25008,2421	47,21058	
63	98665,75436,39738	6 06020,11550	6 14215,25575	9,99416,64406,9883	10,78248,70399	37:48
	2,84306,23437	657,74788	648,96257	1,25144,1379	47,16204	
62	98662,91130,16301	6 05362,36762	6 13566,29318	9,99415,39262,8504	10,78201,54195	37:12
	2,84606,77879	656,35945	647,57401	1,25280,0416	47,11359	
61	98660,06523,38422	6 04706,00817	6 12918,71917	9,99414,13982,8088	10,78154,42836	36:36
	2,84907,31453	654,97546	646,18988	1,25415,9531	47,06524	
60	98657,21616,06969	6 04051,03271	6 12272,52929	9,99412,88566,8557	10,78107,36312	36: 0
	2,85207,84159	653,59587	644,81018	1,25551,8725	47,01702	
59	98654,36408,22810	6 03397,43684	6 11627,71911	9,99411,63014,9832	10,78060,34610	35:24
	2,85508,35998	652,22068	643,43485	1,25687,7997	46,96888	
58	98651,50899,86812	6 02745,21616	6 10984,28426	9,99410,37327,1835	10,78013,37722	34:48
	2,85808,86965	650,84986	642,06392	1,25823,7348	46,92086	
57	98648,65090,99847	6 02094,36630	6 10342,22034	9,99409,11503,4487	10,77966,45636	34:12
	2,86109,37063	649,48341	640,69733	1,25959,6778	46,87293	
56	98645,78981,62784	6 01444,88289	6 09701,52301	9,99407,85543,7709	10,77919,58343	33:36
	2,86409,86289	648,12128	639,33508	1,26095,6286	46,82512	
55	98642,92571,76495	6 00796,76161	6 09062,18793	9,99406,59448,1423	10,77872,75831	33: 0
	2,86710,34642	646,76348	637,97716	1,26231,5874	46,77740	
54	98640,05861,41853	6 00149,99813	6 08424,21077	9,99405,33216,5549	10,77825,98091	32:24
	2,87010,82122	645,40999	636,62353	1,26367,5540	46,72979	
53	98637,18850,59731	5 99504,58814	6 07787,58724	9,99404,06849,0009	10,77779,25112	31:48
	2,87311,28728	644,06076	635,27418	1,26503,5286	46,68228	
52	98634,31539,31003	5 98860,52738	6 07152,31306	9,99402,80345,4723	10,77732,56884	31:12
	2,87611,74459	642,71582	633,92911	1,26639,5110	46,63487	
51	98631,43927,56544	5 98217,81156	6 06518,38395	9,99401,53705,9613	10,77685,93397	30:36
	2,87912,19313	641,37512	632,58828	1,26775,5015	46,58756	
50	98628,56015,37231	5 97576,43644	6 05885,79567	9,99400,26930,4598	10,77639,34641	30: 0
	2,88212,63290	640,03864	631,25168	1,26911,4999	46,54036	
49	98625,67802,73941	5 96936,39780	6 05254,54399	9,99399,00018,9599	10,77592,80605	29:24
	2,88513,06390	638,70638	629,91929	1,27047,5061	46,49325	
48	98622,79289,67551	5 96297,69142	6 04624,62470	9,99397,72971,4538	10,77546,31280	28:48
	2,88813,48611	637,37831	628,59109	1,27183,5204	46,44626	
47	98619,90476,18940	5 95660,31311	6 03996,03361	9,99396,45787,9334	10,77499,86654	28:12
	2,89113,89951	636,05443	627,26708	1,27319,5427	46,39935	
46	98617,01362,28989	5 95024,25868	6 03368,76653	9,99395,18468,3907	10,77453,46719	27:36
	2,89414,30412	634,73469	625,94722	1,27455,5728	46,35254	
45	98614,11947,98577	5 94389,52399	6 02742,81931	9,99393,91012,8179	10,77407,11465	27: 0
	2,89714,69990	633,41910	624,63150	1,27591,6111	46,30585	
44	98611,22233,28587	5 93756,10489	6 02118,18781	9,99392,63421,2068	10,77360,80880	26:24
	2,90015,08686	632,10764	623,31990	1,27727,6572	46,25925	
43	98608,32218,19901	5 93123,99725	6 01494,86791	9,99391,35693,5496	10,77314,54955	25:48
	2,90315,46499	630,80028	622,01242	1,27863,7114	46,21274	
42	98605,41902,73402	5 92493,19697	6 00872,85549	9,99390,07829,8382	10,77268,33681	25:12
	2,90615,83427	629,49701	620,70903	1,27999,7736	46,16634	
41	98602,51286,89975	5 91863,69996	6 00252,14646	9,99388,79830,0646	10,77222,17047	24:36
	2,90916,19470	628,19781	619,40970	1,28135,8439	46,12003	
40	98599,60370,70505	5 91235,50215	5 99632,73676	9,99387,51694,2207	10,77176,05044	24: 0
	2,91216,54627	626,90268	618,11443	1,28271,9221	46,07382	
39	98596,69154,15878	5 90608,59947	5 99014,62233	9,99386,23422,2986	10,77129,97662	23:24
	2,91516,88896	625,61158	616,82320	1,28408,0083	46,02772	
38	98593,77637,26982	5 89982,98789	5 98397,79913	9,99384,95014,2903	10,77083,94890	22:48
	2,91817,22279	624,32450	615,53600	1,28544,1027	45,98171	
37	98590,85820,04703	5 89358,66339	5 97782,26313	9,99383,66470,1876	10,77037,96719	22:12
	2,92117,54771	623,04143	614,25279	1,28680,2051	45,93579	
36	98587,93702,49932	5 88735,62196	5 97168,01034	9,99382,37789,9825	10,76992,03140	21:36
	2,92417,86374	621,76234	612,97359	1,28816,3156	45,88998	
35	98585,01284,63558	5 88113,85962	5 96555,03675	9,99381,08973,6669	10,76946,14142	21: 0
	2,92718,17086	620,48724	611,69834	1,28952,4340	45,84426	
34	98582,08566,46472	5 87493,37238	5 95943,33841	9,99379,80021,2329	10,76900,29716	20:24
	2,93018,46906	619,21608	610,42706	1,29088,5607	45,79863	

GRAD. 80.

9. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	16797,32433,62908	17039,42812	1 01441,32349	9,22524,01080,0386	9,23145,50147	40:12
	17,20505,24443	17,96057	3,01844	44,46086,2238	45,75311	
68	16814,52938,87351	17057,38869	1 01444,34193	9,22568,47166,2624	9,23191,25458	40:48
	17,20454,02446	17,96164	3,02171	44,41407,0427	45,70768	
69	16831,73392,89797	17075,35033	1 01447,36364	9,22612,88573,3051	9,23236,96226	41:24
	17,20402,75206	17,96270	3,02498	44,36737,4225	45,66235	
70	16848,93795,65003	17093,31303	1 01450,38862	9,22657,25310,7276	9,23282,62461	42: 0
	17,20351,42725	17,96379	3,02825	44,32077,3336	45,61710	
71	16866,14147,07728	17111,27682	1 01453,41687	9,22701,57388,0612	9,23328,24171	42:36
	17,20300,05006	17,96485	3,03152	44,27426,7462	45,57196	
72	16883,34447,12734	17129,24167	1 01456,44839	9,22745,84814,8074	9,23373,81367	43:12
	17,20248,62044	17,96593	3,03480	44,22785,6315	45,52691	
73	16900,54695,74778	17147,20760	1 01459,48319	9,22790,07600,4389	9,23419,34058	43:48
	17,20197,13844	17,96700	3,03806	44,18153,9599	45,48196	
74	16917,74892,88622	17165,17460	1 01462,52125	9,22834,25754,3988	9,23464,82254	44:24
	17,20145,60403	17,96808	3,04134	44,13531,7026	45,43709	
75	16934,95038,49025	17183,14268	1 01465,56259	9,22878,39286,1014	9,23510,25963	45: 0
	17,20094,01721	17,96916	3,04462	44,08918,8304	45,39233	
76	16952,15132,50746	17201,11184	1 01468,60721	9,22922,48204,9318	9,23555,65196	45:36
	17,20042,37801	17,97024	3,04788	44,04315,3147	45,34766	
77	16969,35174,88547	17219,08208	1 01471,65509	9,22966,52520,2465	9,23600,99962	46:12
	17,19990,68641	17,97132	3,05117	43,99721,1267	45,30308	
78	16986,55165,57188	17237,05340	1 01474,70626	9,23010,52241,3732	9,23646,30270	46:48
	17,19938,94242	17,97239	3,05443	43,95136,2376	45,25858	
79	17003,75104,51430	17255,02579	1 01477,76069	9,23054,47377,6108	9,23691,56128	47:24
	17,19887,14603	17,97349	3,05771	43,90560,6194	45,21420	
80	17020,94991,66033	17272,99928	1 01480,81840	9,23098,37938,2302	9,23736,77548	48: 0
	17,19835,29724	17,97456	3,06099	43,85994,2431	45,16989	
81	17038,14826,95757	17290,97384	1 01483,87939	9,23142,23932,4733	9,23781,94537	48:36
	17,19783,39609	17,97565	3,06427	43,81437,0810	45,12569	
82	17055,34610,35366	17308,94949	1 01486,94366	9,23186,05369,5543	9,23827,07106	49:12
	17,19731,44252	17,97674	3,06754	43,76889,1047	45,08157	
83	17072,54341,79618	17326,92623	1 01490,01120	9,23229,82258,6590	9,23872,15263	49:48
	17,19679,43659	17,97782	3,07081	43,72350,2862	45,03754	
84	17089,74021,23277	17344,90405	1 01493,08201	9,23273,54608,9452	9,23917,19017	50:24
	17,19627,37826	17,97891	3,07410	43,67820,5975	44,99361	
85	17106,93648,61103	17362,88296	1 01496,15611	9,23317,22429,5427	9,23962,18378	51: 0
	17,19575,26755	17,98000	3,07737	43,63300,0111	44,94976	
86	17124,13223,87858	17380,86296	1 01499,23348	9,23360,85729,5538	9,24007,13354	51:36
	17,19523,10446	17,98110	3,08065	43,58788,4990	44,90602	
87	17141,32746,98304	17398,84406	1 01502,31413	9,23404,44518,0528	9,24052,03956	52:12
	17,19470,88899	17,98218	3,08393	43,54286,0339	44,86235	
88	17158,52217,87203	17416,82624	1 01505,39806	9,23447,98804,0867	9,24096,90191	52:48
	17,19418,62114	17,98328	3,08722	43,49792,5880	44,81878	
89	17175,71636,49317	17434,80952	1 01508,48528	9,23491,48596,6747	9,24141,72069	53:24
	17,19366,30093	17,98437	3,09049	43,45308,1344	44,77530	
90	17192,91002,79410	17452,79389	1 01511,57577	9,23534,93904,8091	9,24186,49599	54: 0
	17,19313,92832	17,98547	3,09377	43,40832,6454	44,73190	
91	17210,10316,72242	17470,77936	1 01514,66954	9,23578,34737,4545	9,24231,22789	54:36
	17,19261,50335	17,98656	3,09705	43,36366,0942	44,68861	
92	17227,29578,22577	17488,76592	1 01517,76659	9,23621,71103,5487	9,24275,91650	55:12
	17,19209,02600	17,98766	3,10033	43,31908,4537	44,64539	
93	17244,48787,25177	17506,75358	1 01520,86692	9,23665,03012,0024	9,24320,56189	55:48
	17,19156,49630	17,98877	3,10362	43,27459,6969	44,60227	
94	17261,67943,74807	17524,74235	1 01523,97054	9,23708,30471,6993	9,24365,16416	56:24
	17,19103,91421	17,98986	3,10690	43,23019,7971	44,55923	
95	17278,87047,66228	17542,73221	1 01527,07744	9,23751,53491,4964	9,24409,72339	57: 0
	17,19051,27976	17,99096	3,11018	43,18588,7276	44,51629	
96	17296,06098,94204	17560,72317	1 01530,18762	9,23794,72080,2240	9,24454,23968	57:36
	17,18998,59294	17,99207	3,11347	43,14166,4617	44,47342	
97	17313,25097,53498	17578,71524	1 01533,30109	9,23837,86246,6857	9,24498,71310	58:12
	17,18945,85377	17,99317	3,11675	43,09752,9730	44,43066	
98	17330,44043,38875	17596,70841	1 01536,41784	9,23880,95999,6587	9,24543,14376	58:48
	17,18893,06223	17,99428	3,12003	43,05348,2353	44,38797	
99	17347,62936,45098	17614,70269	1 01539,53787	9,23924,01347,8940	9,24587,53173	59:24
	17,18840,21832	17,99538	3,12332	43,00952,2220	44,34537	
100	17364,81776,66930	17632,69807	1 01542,66119	9,23967,02300,1160	9,24631,87710	60: 0
	17,18787,32207	17,99649	3,12660	42,96564,9072	44,30287	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	98579,15547,99566	5 86874,15630	5 95332,91135	9,99378,50932,6722	10,76854,49853	19:48
	2,93318,75835	617,94887	609,15972	1,29224,6954	45,75311	
32	98576,22229,23731	5 86256,20743	5 94723,75163	9,99377,21707,9768	10,76808,74542	19:12
	2,93619,03869	616,68557	607,89629	1,29360,8382	45,70768	
31	98573,28610,19862	5 85639,52186	5 94115,85534	9,99375,92347,1386	10,76763,03774	18:36
	2,93919,31008	615,42620	606,63679	1,29496,9892	45,66235	
30	98570,34690,88854	5 85024,09566	5 93509,21855	9,99374,62850,1494	10,76717,37539	18: 0
	2,94219,57254	614,17070	605,38116	1,29633,1481	45,61710	
29	98567,40471,31600	5 84409,92496	5 92903,83739	9,99373,33217,0013	10,76671,75829	17:24
	2,94519,82602	612,91908	604,12941	1,29769,3154	45,57196	
28	98564,45951,48998	5 83797,00588	5 92299,70798	9,99372,03447,6859	10,76626,18633	16:48
	2,94820,07053	611,67133	602,88153	1,29905,4906	45,52691	
27	98561,51131,41945	5 83185,33455	5 91696,82645	9,99370,73542,1953	10,76580,65942	16:12
	2,95120,30607	610,42742	601,63748	1,30041,6741	45,48196	
26	98558,56011,11338	5 82574,90713	5 91095,18897	9,99369,43500,5212	10,76535,17746	15:36
	2,95420,53260	609,18733	600,39727	1,30177,8657	45,43709	
25	98555,60590,58078	5 81965,71980	5 90494,79170	9,99368,13322,6555	10,76489,74037	15: 0
	2,95720,75015	607,95105	599,16086	1,30314,0655	45,39233	
24	98552,64869,83063	5 81357,76875	5 89895,63084	9,99366,83008,5900	10,76444,34804	14:24
	2,96020,95869	606,71858	597,92825	1,30450,2734	45,34766	
23	98549,68848,87194	5 80751,05017	5 89297,70259	9,99365,52558,3166	10,76399,00038	13:48
	2,96321,15820	605,48988	596,69943	1,30586,4896	45,30308	
22	98546,72527,71374	5 80145,56029	5 88701,00316	9,99364,21971,8270	10,76353,69730	13:12
	2,96621,34869	604,26495	595,47436	1,30722,7139	45,25858	
21	98543,75906,36505	5 79541,29534	5 88105,52880	9,99362,91249,1131	10,76308,43872	12:36
	2,96921,53015	603,04377	594,25305	1,30858,9464	45,21420	
20	98540,78984,83490	5 78938,25157	5 87511,27575	9,99361,60390,1667	10,76263,22452	12: 0
	2,97221,70256	601,82632	593,03547	1,30995,1871	45,16989	
19	98537,81763,13234	5 78336,42525	5 86918,24028	9,99360,29394,9796	10,76218,05463	11:24
	2,97521,86591	600,61259	591,82161	1,31131,4361	45,12569	
18	98534,84241,26643	5 77735,81266	5 86326,41867	9,99358,98263,5435	10,76172,92894	10:48
	2,97822,02021	599,40258	590,61146	1,31267,6932	45,08157	
17	98531,86419,24622	5 77136,41008	5 85735,80721	9,99357,66995,8503	10,76127,84737	10:12
	2,98122,16543	598,19624	589,40500	1,31403,9587	45,03754	
16	98528,88297,08079	5 76538,21384	5 85146,40221	9,99356,35591,8916	10,76082,80983	9:36
	2,98422,30158	596,99358	588,20220	1,31540,2324	44,99361	
15	98525,89874,77921	5 75941,22026	5 84558,20001	9,99355,04051,6592	10,76037,81622	9: 0
	2,98722,42862	595,79458	587,00307	1,31676,5142	44,94976	
14	98522,91152,35059	5 75345,42568	5 83971,19694	9,99353,72375,1450	10,75992,86646	8:24
	2,99022,54657	594,59923	585,80759	1,31812,8045	44,90602	
13	98519,92129,80402	5 74750,82645	5 83385,38935	9,99352,40562,3405	10,75947,96044	7:48
	2,99322,65541	593,40750	584,61573	1,31949,1029	44,86235	
12	98516,92807,14861	5 74157,41895	5 82800,77362	9,99351,08613,2376	10,75903,09809	7:12
	2,99622,75514	592,21939	583,42748	1,32085,4096	44,81878	
11	98513,93184,39347	5 73565,19956	5 82217,34614	9,99349,76527,8280	10,75858,27931	6:36
	2,99922,84573	591,03489	582,24285	1,32221,7247	44,77530	
10	98510,93261,54774	5 72974,16467	5 81635,10329	9,99348,44306,1033	10,75813,50401	6: 0
	3,00222,92719	589,85396	581,06179	1,32358,0480	44,73190	
9	98507,93038,62055	5 72384,31071	5 81054,04150	9,99347,11948,0553	10,75768,77211	5:24
	3,00522,99951	588,67661	579,88430	1,32494,3796	44,68861	
8	98504,92515,62104	5 71795,63410	5 80474,15720	9,99345,79453,6757	10,75724,08350	4:48
	3,00823,06267	587,50282	578,71038	1,32630,7196	44,64539	
7	98501,91692,55837	5 71208,13128	5 79895,44682	9,99344,46822,9561	10,75679,43811	4:12
	3,01123,11667	586,33257	577,54000	1,32767,0679	44,60227	
6	98498,90569,44170	5 70621,79871	5 79317,90682	9,99343,14055,8882	10,75634,83584	3:36
	3,01423,16149	585,16584	576,37313	1,32903,4245	44,55923	
5	98495,89146,28021	5 70036,63287	5 78741,53369	9,99341,81152,4637	10,75590,27661	3: 0
	3,01723,19713	584,00264	575,20980	1,33039,7895	44,51629	
4	98492,87423,08308	5 69452,63023	5 78166,32389	9,99340,48112,6742	10,75545,76032	2:24
	3,02023,22359	582,84293	574,04996	1,33176,1628	44,47342	
3	98489,85399,85949	5 68869,78730	5 77592,27393	9,99339,14936,5114	10,75501,28690	1:48
	3,02323,24083	581,68671	572,89360	1,33312,5445	44,43066	
2	98486,83076,61866	5 68288,10059	5 77019,38033	9,99337,81623,9669	10,75456,85624	1:12
	3,02623,24888	580,53396	571,74072	1,33448,9346	44,38797	
1	98483,80453,36978	5 67707,56663	5 76447,63961	9,99336,48175,0323	10,75412,46827	0:36
	3,02923,24770	579,38467	570,59130	1,33585,3329	44,34537	
0	98480,77530,12208	5 67128,18196	5 75877,04831	9,99335,14589,6994	10,75368,12290	0: 0
	3,03223,23730	578,23882	569,44531	1,33721,7399	44,30287	

GRAD. 80.

10. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
0	17364,81776,66930	17632,69807	1 01542,66119	9,23967,02300,1160	9,24631,87710	0: 0
	17,18787,32207	17,99649	3,12660	42,96564,9072	44,30287	
1	17382,00563,99137	17650,69456	1 01545,78779	9,24009,98865,0232	9,24676,17997	0:36
	17,18734,37345	17,99760	3,12989	42,92186,2646	44,26044	
2	17399,19298,36482	17668,69216	1 01548,91768	9,24052,91051,2878	9,24720,44041	1:12
	17,18681,37248	17,99871	3,13318	42,87816,2686	44,21811	
3	17416,37979,73730	17686,69087	1 01552,05086	9,24095,78867,5564	9,24764,65852	1:48
	17,18628,31915	17,99982	3,13646	42,83454,8930	44,17586	
4	17433,56608,05645	17704,69069	1 01555,18732	9,24138,62322,4494	9,24808,83438	2:24
	17,18575,21347	18,00093	3,13976	42,79102,1122	44,13370	
5	17450,75183,26992	17722,69162	1 01558,32708	9,24181,41424,5616	9,24852,96808	3: 0
	17,18522,05544	18,00205	3,14303	42,74757,9006	44,09162	
6	17467,93705,32536	17740,69367	1 01561,47011	9,24224,16182,4622	9,24897,05970	3:36
	17,18468,84506	18,00316	3,14633	42,70422,2325	44,04962	
7	17485,12174,17042	17758,69683	1 01564,61644	9,24266,86604,6947	9,24941,10932	4:12
	17,18415,58234	18,00428	3,14962	42,66095,0827	44,00772	
8	17502,30589,75276	17776,70111	1 01567,76606	9,24309,52699,7774	9,24985,11704	4:48
	17,18362,26726	18,00539	3,15291	42,61776,4256	43,96590	
9	17519,48952,02002	17794,70650	1 01570,91897	9,24352,14476,2030	9,25029,08294	5:24
	17,18308,89985	18,00652	3,15619	42,57466,2362	43,92416	
10	17536,67260,91987	17812,71302	1 01574,07516	9,24394,71942,4392	9,25073,00710	6: 0
	17,18255,48009	18,00763	3,15949	42,53164,4891	43,88251	
11	17553,85516,39996	17830,72065	1 01577,23465	9,24437,25106,9283	9,25116,88961	6:36
	17,18202,00799	18,00875	3,16278	42,48871,1594	43,84094	
12	17571,03718,40795	17848,72940	1 01580,39743	9,24479,73978,0877	9,25160,73055	7:12
	17,18148,48354	18,00988	3,16607	42,44586,2223	43,79945	
13	17588,21866,89149	17866,73928	1 01583,56350	9,24522,18564,3100	9,25204,53000	7:48
	17,18094,90677	18,01100	3,16936	42,40309,6526	43,75805	
14	17605,39961,79826	17884,75028	1 01586,73286	9,24564,58873,9626	9,25248,28805	8:24
	17,18041,27766	18,01212	3,17265	42,36041,4260	43,71674	
15	17622,58003,07592	17902,76240	1 01589,90551	9,24606,94915,3886	9,25292,00479	9: 0
	17,17987,59620	18,01325	3,17595	42,31781,5174	43,67551	
16	17639,75990,67212	17920,77565	1 01593,08146	9,24649,26696,9060	9,25335,68030	9:36
	17,17933,86243	18,01438	3,17924	42,27529,9026	43,63435	
17	17656,93924,53455	17938,79003	1 01596,26070	9,24691,54226,8086	9,25379,31465	10:12
	17,17880,07631	18,01550	3,18253	42,23286,5569	43,59328	
18	17674,11804,61086	17956,80553	1 01599,44323	9,24733,77513,3655	9,25422,90793	10:48
	17,17826,23787	18,01663	3,18583	42,19051,4562	43,55230	
19	17691,29630,84873	17974,82216	1 01602,62906	9,24775,96564,8217	9,25466,46023	11:24
	17,17772,34710	18,01777	3,18912	42,14824,5759	43,51140	
20	17708,47403,19583	17992,83993	1 01605,81818	9,24818,11389,3976	9,25509,97163	12: 0
	17,17718,40401	18,01889	3,19242	42,10605,8921	43,47058	
21	17725,65121,59984	18010,85882	1 01609,01060	9,24860,21995,2897	9,25553,44221	12:36
	17,17664,40858	18,02003	3,19572	42,06395,3807	43,42983	
22	17742,82786,00842	18028,87885	1 01612,20632	9,24902,28390,6704	9,25596,87204	13:12
	17,17610,36084	18,02116	3,19901	42,02193,0176	43,38918	
23	17760,00396,36926	18046,90001	1 01615,40533	9,24944,30583,6880	9,25640,26122	13:48
	17,17556,26077	18,02230	3,20231	41,97998,7790	43,34860	
24	17777,17952,63003	18064,92231	1 01618,60764	9,24986,28582,4670	9,25683,60982	14:24
	17,17502,10839	18,02344	3,20560	41,93812,6410	43,30811	
25	17794,35454,73842	18082,94575	1 01621,81324	9,25028,22395,1080	9,25726,91793	15: 0
	17,17447,90368	18,02457	3,20891	41,89634,5800	43,26769	
26	17811,52902,64210	18100,97032	1 01625,02215	9,25070,12029,6880	9,25770,18562	15:36
	17,17393,64666	18,02571	3,21220	41,85464,5725	43,22736	
27	17828,70296,28876	18118,99603	1 01628,23435	9,25111,97494,2605	9,25813,41298	16:12
	17,17339,33733	18,02685	3,21550	41,81302,5948	43,18711	
28	17845,87635,62609	18137,02288	1 01631,44985	9,25153,78796,8553	9,25856,60009	16:48
	17,17284,97568	18,02799	3,21880	41,77148,6234	43,14693	
29	17863,04920,60177	18155,05087	1 01634,66865	9,25195,55945,4787	9,25899,74702	17:24
	17,17230,56173	18,02914	3,22210	41,73002,6353	43,10684	
30	17880,22151,16350	18173,08001	1 01637,89075	9,25237,28948,1140	9,25942,85386	18: 0
	17,17176,09545	18,03028	3,22541	41,68864,6069	43,06682	
31	17897,39327,25895	18191,11029	1 01641,11616	9,25278,97812,7209	9,25985,92068	18:36
	17,17121,57687	18,03142	3,22870	41,64734,5154	43,02689	
32	17914,56448,83582	18209,14171	1 01644,34486	9,25320,62547,2363	9,26028,94757	19:12
	17,17067,00599	18,03257	3,23200	41,60612,3373	42,98704	
33	17931,73515,84181	18227,17428	1 01647,57686	9,25362,23159,5736	9,26071,93461	19:48
	17,17012,38281	18,03371	3,23531	41,56498,0501	42,94726	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
100	98480,77530,12208	5 67128,18196	5 75877,04831	9,99335,14589,6994	10,75368,12290	60: 0
	3,03223,23730	578,23882	569,44531	1,33721,7399	44,30287	
99	98477,74306,88478	5 66549,94314	5 75307,60300	9,99333,80867,9595	10,75323,82003	59:24
	3,03523,21765	577,09642	568,30277	1,33858,1550	44,26044	
98	98474,70783,66713	5 65972,84672	5 74739,30023	9,99332,47009,8045	10,75279,55959	58:48
	3,03823,18877	575,95741	567,16364	1,33994,5787	44,21811	
97	98471,66960,47836	5 65396,88931	5 74172,13659	9,99331,13015,2258	10,75235,34148	58:12
	3,04123,15063	574,82182	566,02790	1,34131,0108	44,17586	
96	98468,62837,32773	5 64822,06749	5 73606,10869	9,99329,78884,2150	10,75191,16562	57:36
	3,04423,10322	573,68962	564,89557	1,34267,4513	44,13370	
95	98465,58414,22451	5 64248,37787	5 73041,21312	9,99328,44616,7637	10,75147,03192	57: 0
	3,04723,04655	572,56079	563,76661	1,34403,9002	44,09162	
94	98462,53691,17796	5 63675,81708	5 72477,44651	9,99327,10212,8635	10,75102,94030	56:24
	3,05022,98058	571,43533	562,64101	1,34540,3575	44,04962	
93	98459,48668,19738	5 63104,38175	5 71914,80550	9,99325,75672,5060	10,75058,89068	55:48
	3,05322,90533	570,31321	561,51876	1,34676,8234	44,00772	
92	98456,43345,29205	5 62534,06854	5 71353,28674	9,99324,40995,6826	10,75014,88296	55:12
	3,05622,82077	569,19444	560,39985	1,34813,2977	43,96590	
91	98453,37722,47128	5 61964,87410	5 70792,88689	9,99323,06182,3849	10,74970,91706	54:36
	3,05922,72691	568,07899	559,28426	1,34949,7805	43,92416	
90	98450,31799,74437	5 61396,79511	5 70233,60263	9,99321,71232,6044	10,74926,99290	54: 0
	3,06222,62373	566,96684	558,17199	1,35086,2716	43,88251	
89	98447,25577,12064	5 60829,82827	5 69675,43064	9,99320,36146,3328	10,74883,11039	53:24
	3,06522,51122	565,85799	557,06300	1,35222,7715	43,84094	
88	98444,19054,60942	5 60263,97028	5 69118,36764	9,99319,00923,5613	10,74839,26945	52:48
	3,06822,38937	564,75244	555,95730	1,35359,2797	43,79945	
87	98441,12232,22005	5 59699,21784	5 68562,41034	9,99317,65564,2816	10,74795,47000	52:12
	3,07122,25818	563,65014	554,85487	1,35495,7964	43,75805	
86	98438,05109,96187	5 59135,56770	5 68007,55547	9,99316,30068,4852	10,74751,71195	51:36
	3,07422,11763	562,55111	553,75571	1,35632,3217	43,71674	
85	98434,97687,84424	5 58573,01659	5 67453,79976	9,99314,94436,1635	10,74707,99521	51: 0
	3,07721,96772	561,45533	552,65979	1,35768,8554	43,67551	
84	98431,89965,87652	5 58011,56126	5 66901,13997	9,99313,58667,3081	10,74664,31970	50:24
	3,08021,80842	560,36277	551,56709	1,35905,3979	43,63435	
83	98428,81944,06810	5 57451,19849	5 66349,57288	9,99312,22761,9102	10,74620,68535	49:48
	3,08321,63976	559,27343	550,47762	1,36041,9487	43,59328	
82	98425,73622,42834	5 56891,92506	5 65799,09526	9,99310,86719,9615	10,74577,09207	49:12
	3,08621,46169	558,18731	549,39136	1,36178,5081	43,55230	
81	98422,65000,96665	5 56333,73775	5 65249,70390	9,99309,50541,4534	10,74533,53977	48:36
	3,08921,27423	557,10437	548,30829	1,36315,0761	43,51140	
80	98419,56079,69242	5 55776,63338	5 64701,39561	9,99308,14226,3773	10,74490,02837	48: 0
	3,09221,07736	556,02463	547,22840	1,36451,6527	43,47058	
79	98416,46858,61506	5 55220,60875	5 64154,16721	9,99306,77774,7246	10,74446,55779	47:24
	3,09520,87106	554,94805	546,15169	1,36588,2378	43,42983	
78	98413,37337,74400	5 54665,66070	5 63608,01552	9,99305,41186,4868	10,74403,12796	46:48
	3,09820,65534	553,87462	545,07812	1,36724,8316	43,38918	
77	98410,27517,08866	5 54111,78608	5 63062,93740	9,99304,04461,6552	10,74359,73878	46:12
	3,10120,43018	552,80435	544,00771	1,36861,4340	43,34860	
76	98407,17396,65848	5 53558,98173	5 62518,92969	9,99302,67600,2212	10,74316,39018	45:36
	3,10420,19557	551,73720	542,94043	1,36998,0449	43,30811	
75	98404,06976,46291	5 53007,24453	5 61975,98926	9,99301,30602,1763	10,74273,08207	45: 0
	3,10719,95151	550,67318	541,87627	1,37134,6644	43,26769	
74	98400,96256,51140	5 52456,57135	5 61434,11299	9,99299,93467,5119	10,74229,81438	44:24
	3,11019,69799	549,61226	540,81521	1,37271,2927	43,22736	
73	98397,85236,81341	5 51906,95909	5 60893,29778	9,99298,56196,2192	10,74186,58702	43:48
	3,11319,43498	548,55444	539,75726	1,37407,9295	43,18711	
72	98394,73917,37843	5 51358,40465	5 60353,54052	9,99297,18788,2897	10,74143,39991	43:12
	3,11619,16249	547,49971	538,70238	1,37544,5750	43,14693	
71	98391,62298,21594	5 50810,90494	5 59814,83814	9,99295,81243,7147	10,74100,25298	42:36
	3,11918,88052	546,44804	537,65058	1,37681,2291	43,10684	
70	98388,50379,33542	5 50264,45690	5 59277,18756	9,99294,43562,4856	10,74057,14614	42: 0
	3,12218,58904	545,39944	536,60184	1,37817,8920	43,06682	
69	98385,38160,74638	5 49719,05746	5 58740,58572	9,99293,05744,5936	10,74014,07932	41:24
	3,12518,28805	544,35389	535,55615	1,37954,5634	43,02689	
68	98382,25642,45833	5 49174,70357	5 58205,02957	9,99291,67790,0302	10,73971,05243	40:48
	3,12817,97754	543,31137	534,51349	1,38091,2436	42,98704	
67	98379,12824,48079	5 48631,39220	5 57670,51608	9,99290,29698,7866	10,73928,06539	40:12
	3,13117,65751	542,27188	533,47386	1,38227,9324	42,94726	

GRAD. 79.

10. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	17931,73515,84181	18227,17428	1 01647,57686	9,25362,23159,5736	9,26071,93461	19:48
	17,17012,38281	18,03371	3,23531	41,56498,0501	42,94726	
34	17948,90528,22462	18245,20799	1 01650,81217	9,25403,79657,6237	9,26114,88187	20:24
	17,16957,70731	18,03487	3,23861	41,52391,6305	42,90756	
35	17966,07485,93193	18263,24286	1 01654,05078	9,25445,32049,2542	9,26157,78943	21: 0
	17,16902,97951	18,03602	3,24191	41,48293,0560	42,86794	
36	17983,24388,91144	18281,27888	1 01657,29269	9,25486,80342,3102	9,26200,65737	21:36
	17,16848,19942	18,03716	3,24522	41,44202,3037	42,82841	
37	18000,41237,11086	18299,31604	1 01660,53791	9,25528,24544,6139	9,26243,48578	22:12
	17,16793,36704	18,03832	3,24852	41,40119,3512	42,78894	
38	18017,58030,47790	18317,35436	1 01663,78643	9,25569,64663,9651	9,26286,27472	22:48
	17,16738,48234	18,03947	3,25182	41,36044,1757	42,74956	
39	18034,74768,96024	18335,39383	1 01667,03825	9,25611,00708,1408	9,26329,02428	23:24
	17,16683,54536	18,04063	3,25513	41,31976,7549	42,71025	
40	18051,91452,50560	18353,43446	1 01670,29338	9,25652,32684,8957	9,26371,73453	24: 0
	17,16628,55608	18,04178	3,25844	41,27917,0664	42,67102	
41	18069,08081,06168	18371,47624	1 01673,55182	9,25693,60601,9621	9,26414,40555	24:36
	17,16573,51452	18,04294	3,26174	41,23865,0880	42,63187	
42	18086,24654,57620	18389,51918	1 01676,81356	9,25734,84467,0501	9,26457,03742	25:12
	17,16518,42066	18,04410	3,26505	41,19820,7974	42,59279	
43	18103,41172,99686	18407,56328	1 01680,07861	9,25776,04287,8475	9,26499,63021	25:48
	17,16463,27451	18,04525	3,26835	41,15784,1726	42,55379	
44	18120,57636,27137	18425,60853	1 01683,34696	9,25817,20072,0201	9,26542,18400	26:24
	17,16408,07609	18,04642	3,27167	41,11755,1915	42,51488	
45	18137,74044,34746	18443,65495	1 01686,61863	9,25858,31827,2116	9,26584,69888	27: 0
	17,16352,82536	18,04758	3,27497	41,07733,8323	42,47602	
46	18154,90397,17282	18461,70253	1 01689,89360	9,25899,39561,0439	9,26627,17490	27:36
	17,16297,52236	18,04874	3,27828	41,03720,0728	42,43726	
47	18172,06694,69518	18479,75127	1 01693,17188	9,25940,43281,1167	9,26669,61216	28:12
	17,16242,16709	18,04991	3,28159	40,99713,8917	42,39856	
48	18189,22936,86227	18497,80118	1 01696,45347	9,25981,42995,0084	9,26712,01072	28:48
	17,16186,75952	18,05107	3,28490	40,95715,2670	42,35995	
49	18206,39123,62179	18515,85225	1 01699,73837	9,26022,38710,2754	9,26754,37067	29:24
	17,16131,29968	18,05224	3,28821	40,91724,1772	42,32140	
50	18223,55254,92147	18533,90449	1 01703,02658	9,26063,30434,4526	9,26796,69207	30: 0
	17,16075,78757	18,05341	3,29152	40,87740,6008	42,28294	
51	18240,71330,70904	18551,95790	1 01706,31810	9,26104,18175,0534	9,26838,97501	30:36
	17,16020,22318	18,05458	3,29483	40,83764,5163	42,24454	
52	18257,87350,93222	18570,01248	1 01709,61293	9,26145,01939,5697	9,26881,21955	31:12
	17,15964,60652	18,05574	3,29815	40,79795,9023	42,20623	
53	18275,03315,53874	18588,06822	1 01712,91108	9,26185,81735,4720	9,26923,42578	31:48
	17,15908,93758	18,05692	3,30146	40,75834,7377	42,16798	
54	18292,19224,47632	18606,12514	1 01716,21254	9,26226,57570,2097	9,26965,59376	32:24
	17,15853,21637	18,05809	3,30477	40,71881,0012	42,12982	
55	18309,35077,69269	18624,18323	1 01719,51731	9,26267,29451,2109	9,27007,72358	33: 0
	17,15797,44291	18,05927	3,30808	40,67934,6716	42,09172	
56	18326,50875,13560	18642,24250	1 01722,82539	9,26307,97385,8825	9,27049,81530	33:36
	17,15741,61716	18,06044	3,31140	40,63995,7280	42,05369	
57	18343,66616,75276	18660,30294	1 01726,13679	9,26348,61381,6105	9,27091,86899	34:12
	17,15685,73917	18,06161	3,31471	40,60064,1495	42,01576	
58	18360,82302,49193	18678,36455	1 01729,45150	9,26389,21445,7600	9,27133,88475	34:48
	17,15629,80890	18,06280	3,31803	40,56139,9149	41,97788	
59	18377,97932,30083	18696,42735	1 01732,76953	9,26429,77585,6749	9,27175,86263	35:24
	17,15573,82637	18,06397	3,32134	40,52223,0038	41,94008	
60	18395,13506,12720	18714,49132	1 01736,09087	9,26470,29808,6787	9,27217,80271	36: 0
	17,15517,79159	18,06515	3,32466	40,48313,3952	41,90235	
61	18412,29023,91879	18732,55647	1 01739,41553	9,26510,78122,0739	9,27259,70506	36:36
	17,15461,70454	18,06634	3,32797	40,44411,0687	41,86470	
62	18429,44485,62333	18750,62281	1 01742,74350	9,26551,22533,1426	9,27301,56976	37:12
	17,15405,56525	18,06752	3,33130	40,40516,0035	41,82711	
63	18446,59891,18858	18768,69033	1 01746,07480	9,26591,63049,1461	9,27343,39687	37:48
	17,15349,37369	18,06870	3,33461	40,36628,1792	41,78961	
64	18463,75240,56227	18786,75903	1 01749,40941	9,26631,99677,3253	9,27385,18648	38:24
	17,15293,12988	18,06988	3,33793	40,32747,5754	41,75217	
65	18480,90533,69215	18804,82891	1 01752,74734	9,26672,32424,9007	9,27426,93865	39: 0
	17,15236,83383	18,07107	3,34124	40,28874,1719	41,71481	
66	18498,05770,52598	18822,89998	1 01756,08858	9,26712,61299,0726	9,27468,65346	39:36
	17,15180,48553	18,07226	3,34457	40,25007,9481	41,67752	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	98379,12824,48079	5 48631,39220	5 57670,51608	9,99290,29698,7866	10,73928,06539	40:12
	3,13117,65751	542,27188	533,47386	1,38227,9324	42,94726	
66	98375,99706,82328	5 48089,12032	5 57137,04222	9,99288,91470,8542	10,73885,11813	39:36
	3,13417,32792	541,23540	532,43725	1,38364,6301	42,90756	
65	98372,86289,49536	5 47547,88492	5 56604,60497	9,99287,53106,2241	10,73842,21057	39: 0
	3,13716,98880	540,20193	531,40362	1,38501,3362	42,86794	
64	98369,72572,50656	5 47007,68299	5 56073,20135	9,99286,14604,8879	10,73799,34263	38:24
	3,14016,64012	539,17143	530,37301	1,38638,0513	42,82841	
63	98366,58555,86644	5 46468,51156	5 55542,82834	9,99284,75966,8366	10,73756,51422	37:48
	3,14316,28188	538,14393	529,34535	1,38774,7750	42,78894	
62	98363,44239,58456	5 45930,36763	5 55013,48299	9,99283,37192,0616	10,73713,72528	37:12
	3,14615,91405	537,11939	528,32067	1,38911,5074	42,74956	
61	98360,29623,67051	5 45393,24824	5 54485,16232	9,99281,98280,5542	10,73670,97572	36:36
	3,14915,53665	536,09780	527,29895	1,39048,2486	42,71025	
60	98357,14708,13386	5 44857,15044	5 53957,86337	9,99280,59232,3056	10,73628,26547	36: 0
	3,15215,14965	535,07916	526,28017	1,39184,9986	42,67102	
59	98353,99492,98421	5 44322,07128	5 53431,58320	9,99279,20047,3070	10,73585,59445	35:24
	3,15514,75306	534,06345	525,26432	1,39321,7573	42,63187	
58	98350,83978,23115	5 43788,00783	5 52906,31888	9,99277,80725,5497	10,73542,96258	34:48
	3,15814,34684	533,05067	524,25139	1,39458,5248	42,59279	
57	98347,68163,88431	5 43254,95716	5 52382,06749	9,99276,41267,0249	10,73500,36979	34:12
	3,16113,93101	532,04079	523,24138	1,39595,3011	42,55379	
56	98344,52049,95330	5 42722,91637	5 51858,82611	9,99275,01671,7238	10,73457,81600	33:36
	3,16413,50556	531,03381	522,23426	1,39732,0862	42,51488	
55	98341,35636,44774	5 42191,88256	5 51336,59185	9,99273,61939,6376	10,73415,30112	33: 0
	3,16713,07045	530,02972	521,23003	1,39868,8801	42,47602	
54	98338,18923,37729	5 41661,85284	5 50815,36182	9,99272,22070,7575	10,73372,82510	32:24
	3,17012,62571	529,02852	520,22868	1,40005,6827	42,43726	
53	98335,01910,75158	5 41132,82432	5 50295,13314	9,99270,82065,0748	10,73330,38784	31:48
	3,17312,17130	528,03017	519,23020	1,40142,4942	42,39856	
52	98331,84598,58028	5 40604,79415	5 49775,90294	9,99269,41922,5806	10,73287,98928	31:12
	3,17611,70724	527,03468	518,23456	1,40279,3146	42,35995	
51	98328,66986,87304	5 40077,75947	5 49257,66838	9,99268,01643,2660	10,73245,62933	30:36
	3,17911,23349	526,04204	517,24178	1,40416,1438	42,32140	
50	98325,49075,63955	5 39551,71743	5 48740,42660	9,99266,61227,1222	10,73203,30793	30: 0
	3,18210,75007	525,05222	516,25183	1,40552,9818	42,28294	
49	98322,30864,88948	5 39026,66521	5 48224,17477	9,99265,20674,1404	10,73161,02499	29:24
	3,18510,25694	524,06524	515,26470	1,40689,8287	42,24454	
48	98319,12354,63254	5 38502,59997	5 47708,91007	9,99263,79984,3117	10,73118,78045	28:48
	3,18809,75412	523,08107	514,28038	1,40826,6844	42,20623	
47	98315,93544,87842	5 37979,51890	5 47194,62969	9,99262,39157,6273	10,73076,57422	28:12
	3,19109,24159	522,09969	513,29887	1,40963,5491	42,16798	
46	98312,74435,63683	5 37457,41921	5 46681,33082	9,99260,98194,0782	10,73034,40624	27:36
	3,19408,71933	521,12110	512,32014	1,41100,4225	42,12982	
45	98309,55026,91750	5 36936,29811	5 46169,01068	9,99259,57093,6557	10,72992,27642	27: 0
	3,19708,18735	520,14531	511,34420	1,41237,3050	42,09172	
44	98306,35318,73015	5 36416,15280	5 45657,66648	9,99258,15856,3507	10,72950,18470	26:24
	3,20007,64562	519,17227	510,37102	1,41374,1963	42,05369	
43	98303,15311,08453	5 35896,98053	5 45147,29546	9,99256,74482,1544	10,72908,13101	25:48
	3,20307,09414	518,20199	509,40061	1,41511,0965	42,01576	
42	98299,95003,99039	5 35378,77854	5 44637,89485	9,99255,32971,0579	10,72866,11525	25:12
	3,20606,53292	517,23448	508,43294	1,41648,0056	41,97788	
41	98296,74397,45747	5 34861,54406	5 44129,46191	9,99253,91323,0523	10,72824,13737	24:36
	3,20905,96193	516,26968	507,46801	1,41784,9238	41,94008	
40	98293,53491,49554	5 34345,27438	5 43621,99390	9,99252,49538,1285	10,72782,19729	24: 0
	3,21205,38115	515,30763	506,50582	1,41921,8507	41,90235	
39	98290,32286,11439	5 33829,96675	5 43115,48808	9,99251,07616,2778	10,72740,29494	23:24
	3,21504,79060	514,34829	505,54633	1,42058,7867	41,86470	
38	98287,10781,32379	5 33315,61846	5 42609,94175	9,99249,65557,4911	10,72698,43024	22:48
	3,21804,19025	513,39166	504,58955	1,42195,7316	41,82711	
37	98283,88977,13354	5 32802,22680	5 42105,35220	9,99248,23361,7595	10,72656,60313	22:12
	3,22103,58009	512,43772	503,63548	1,42332,6855	41,78961	
36	98280,66873,55345	5 32289,78908	5 41601,71672	9,99246,81029,0740	10,72614,81352	21:36
	3,22402,96014	511,48648	502,68409	1,42469,6484	41,75217	
35	98277,44470,59331	5 31778,30260	5 41099,03263	9,99245,38559,4256	10,72573,06135	21: 0
	3,22702,33035	510,53791	501,73537	1,42606,6203	41,71481	
34	98274,21768,26296	5 31267,76469	5 40597,29726	9,99243,95952,8053	10,72531,34654	20:24
	3,23001,69073	509,59200	500,78933	1,42743,6011	41,67752	

GRAD. 79.

10. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	18515,20951,01151	18840,97224	1 01759,43315	9,26752,86307,0207	9,27510,33098	40:12
	17,15124,08496	18,07345	3,34789	40,21148,8843	41,64029	
68	18532,36075,09647	18859,04569	1 01762,78104	9,26793,07455,9050	9,27551,97127	40:48
	17,15067,63217	18,07464	3,35120	40,17296,9599	41,60315	
69	18549,51142,72864	18877,12033	1 01766,13224	9,26833,24752,8649	9,27593,57442	41:24
	17,15011,12713	18,07583	3,35453	40,13452,1553	41,56607	
70	18566,66153,85577	18895,19616	1 01769,48677	9,26873,38205,0202	9,27635,14049	42: 0
	17,14954,56984	18,07702	3,35785	40,09614,4502	41,52906	
71	18583,81108,42561	18913,27318	1 01772,84462	9,26913,47819,4704	9,27676,66955	42:36
	17,14897,96032	18,07821	3,36117	40,05783,8249	41,49212	
72	18600,96006,38593	18931,35139	1 01776,20579	9,26953,53603,2953	9,27718,16167	43:12
	17,14841,29855	18,07941	3,36450	40,01960,2596	41,45526	
73	18618,10847,68448	18949,43080	1 01779,57029	9,26993,55563,5549	9,27759,61693	43:48
	17,14784,58455	18,08061	3,36781	39,98143,7346	41,41847	
74	18635,25632,26903	18967,51141	1 01782,93810	9,27033,53707,2895	9,27801,03540	44:24
	17,14727,81832	18,08180	3,37114	39,94334,2300	41,38174	
75	18652,40360,08735	18985,59321	1 01786,30924	9,27073,48041,5195	9,27842,41714	45: 0
	17,14670,99984	18,08300	3,37447	39,90531,7265	41,34508	
76	18669,55031,08719	19003,67621	1 01789,68371	9,27113,38573,2460	9,27883,76222	45:36
	17,14614,12914	18,08420	3,37779	39,86736,2045	41,30850	
77	18686,69645,21633	19021,76041	1 01793,06150	9,27153,25309,4505	9,27925,07072	46:12
	17,14557,20621	18,08540	3,38111	39,82947,6445	41,27199	
78	18703,84202,42254	19039,84581	1 01796,44261	9,27193,08257,0950	9,27966,34271	46:48
	17,14500,23105	18,08661	3,38444	39,79166,0272	41,23554	
79	18720,98702,65359	19057,93242	1 01799,82705	9,27232,87423,1222	9,28007,57825	47:24
	17,14443,20366	18,08780	3,38777	39,75391,3332	41,19916	
80	18738,13145,85725	19076,02022	1 01803,21482	9,27272,62814,4554	9,28048,77741	48: 0
	17,14386,12404	18,08901	3,39109	39,71623,5434	41,16286	
81	18755,27531,98129	19094,10923	1 01806,60591	9,27312,34437,9988	9,28089,94027	48:36
	17,14328,99222	18,09022	3,39442	39,67862,6386	41,12662	
82	18772,41860,97351	19112,19945	1 01810,00033	9,27352,02300,6374	9,28131,06689	49:12
	17,14271,80815	18,09142	3,39775	39,64108,5996	41,09045	
83	18789,56132,78166	19130,29087	1 01813,39808	9,27391,66409,2370	9,28172,15734	49:48
	17,14214,57188	18,09263	3,40108	39,60361,4077	41,05435	
84	18806,70347,35354	19148,38350	1 01816,79916	9,27431,26770,6447	9,28213,21169	50:24
	17,14157,28338	18,09384	3,40440	39,56621,0436	41,01832	
85	18823,84504,63692	19166,47734	1 01820,20356	9,27470,83391,6883	9,28254,23001	51: 0
	17,14099,94268	18,09506	3,40774	39,52887,4886	40,98236	
86	18840,98604,57960	19184,57240	1 01823,61130	9,27510,36279,1769	9,28295,21237	51:36
	17,14042,54974	18,09626	3,41106	39,49160,7239	40,94646	
87	18858,12647,12934	19202,66866	1 01827,02236	9,27549,85439,9008	9,28336,15883	52:12
	17,13985,10461	18,09748	3,41440	39,45440,7308	40,91063	
88	18875,26632,23395	19220,76614	1 01830,43676	9,27589,30880,6316	9,28377,06946	52:48
	17,13927,60726	18,09869	3,41773	39,41727,4905	40,87487	
89	18892,40559,84121	19238,86483	1 01833,85449	9,27628,72608,1221	9,28417,94433	53:24
	17,13870,05770	18,09990	3,42106	39,38020,9845	40,83917	
90	18909,54429,89891	19256,96473	1 01837,27555	9,27668,10629,1066	9,28458,78350	54: 0
	17,13812,45594	18,10113	3,42439	39,34321,1943	40,80355	
91	18926,68242,35485	19275,06586	1 01840,69994	9,27707,44950,3009	9,28499,58705	54:36
	17,13754,80196	18,10234	3,42772	39,30628,1014	40,76800	
92	18943,81997,15681	19293,16820	1 01844,12766	9,27746,75578,4023	9,28540,35505	55:12
	17,13697,09579	18,10356	3,43106	39,26941,6873	40,73249	
93	18960,95694,25260	19311,27176	1 01847,55872	9,27786,02520,0896	9,28581,08754	55:48
	17,13639,33741	18,10478	3,43439	39,23261,9338	40,69708	
94	18978,09333,59001	19329,37654	1 01850,99311	9,27825,25782,0234	9,28621,78462	56:24
	17,13581,52684	18,10600	3,43772	39,19588,8228	40,66172	
95	18995,22915,11685	19347,48254	1 01854,43083	9,27864,45370,8462	9,28662,44634	57: 0
	17,13523,66405	18,10722	3,44106	39,15922,3357	40,62642	
96	19012,36438,78090	19365,58976	1 01857,87189	9,27903,61293,1819	9,28703,07276	57:36
	17,13465,74909	18,10845	3,44440	39,12262,4547	40,59120	
97	19029,49904,52999	19383,69821	1 01861,31629	9,27942,73555,6366	9,28743,66396	58:12
	17,13407,78191	18,10967	3,44773	39,08609,1616	40,55603	
98	19046,63312,31190	19401,80788	1 01864,76402	9,27981,82164,7982	9,28784,21999	58:48
	17,13349,76255	18,11091	3,45107	39,04962,4385	40,52094	
99	19063,76662,07445	19419,91879	1 01868,21509	9,28020,87127,2367	9,28824,74093	59:24
	17,13291,69100	18,11212	3,45441	39,01322,2674	40,48592	
100	19080,89953,76545	19438,03091	1 01871,66950	9,28059,88449,5041	9,28865,22685	60: 0
	17,13233,56725	18,11336	3,45774	38,97688,6304	40,45095	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	98270,98766,57223	5 30758,17269	5 40096,50793	9,99242,53209,2042	10,72489,66902	19:48
	3,23301,04128	508,64876	499,84594	1,42880,5909	41,64029	
32	98267,75465,53095	5 30249,52393	5 39596,66199	9,99241,10328,6133	10,72448,02873	19:12
	3,23600,38198	507,70816	498,90520	1,43017,5898	41,60315	
31	98264,51865,14897	5 29741,81577	5 39097,75679	9,99239,67311,0235	10,72406,42558	18:36
	3,23899,71282	506,77020	497,96710	1,43154,5977	41,56607	
30	98261,27965,43615	5 29235,04557	5 38599,78969	9,99238,24156,4258	10,72364,85951	18: 0
	3,24199,03379	505,83487	497,03161	1,43291,6147	41,52906	
29	98258,03766,40236	5 28729,21070	5 38102,75808	9,99236,80864,8111	10,72323,33045	17:24
	3,24498,34489	504,90215	496,09876	1,43428,6406	41,49212	
28	98254,79268,05747	5 28224,30855	5 37606,65932	9,99235,37436,1705	10,72281,83833	16:48
	3,24797,64611	503,97205	495,16851	1,43565,6756	41,45526	
27	98251,54470,41136	5 27720,33650	5 37111,49081	9,99233,93870,4949	10,72240,38307	16:12
	3,25096,93742	503,04454	494,24086	1,43702,7197	41,41847	
26	98248,29373,47394	5 27217,29196	5 36617,24995	9,99232,50167,7752	10,72198,96460	15:36
	3,25396,21884	502,11962	493,31579	1,43839,7728	41,38174	
25	98245,03977,25510	5 26715,17234	5 36123,93416	9,99231,06328,0024	10,72157,58286	15: 0
	3,25695,49035	501,19727	492,39331	1,43976,8351	41,34508	
24	98241,78281,76475	5 26213,97507	5 35631,54085	9,99229,62351,1673	10,72116,23778	14:24
	3,25994,75193	500,27751	491,47339	1,44113,9064	41,30850	
23	98238,52287,01282	5 25713,69756	5 35140,06746	9,99228,18237,2609	10,72074,92928	13:48
	3,26294,00358	499,36030	490,55604	1,44250,9868	41,27199	
22	98235,25993,00924	5 25214,33726	5 34649,51142	9,99226,73986,2741	10,72033,65729	13:12
	3,26593,24529	498,44563	489,64123	1,44388,0763	41,23554	
21	98231,99399,76395	5 24715,89163	5 34159,87019	9,99225,29598,1978	10,71992,42175	12:36
	3,26892,47706	497,53352	488,72896	1,44525,1750	41,19916	
20	98228,72507,28689	5 24218,35811	5 33671,14123	9,99223,85073,0228	10,71951,22259	12: 0
	3,27191,69887	496,62393	487,81923	1,44662,2827	41,16286	
19	98225,45315,58802	5 23721,73418	5 33183,32200	9,99222,40410,7401	10,71910,05973	11:24
	3,27490,91071	495,71686	486,91202	1,44799,3996	41,12662	
18	98222,17824,67731	5 23226,01732	5 32696,40998	9,99220,95611,3405	10,71868,93311	10:48
	3,27790,11257	494,81231	486,00732	1,44936,5256	41,09045	
17	98218,90034,56474	5 22731,20501	5 32210,40266	9,99219,50674,8149	10,71827,84266	10:12
	3,28089,30445	493,91026	485,10513	1,45073,6609	41,05435	
16	98215,61945,26029	5 22237,29475	5 31725,29753	9,99218,05601,1540	10,71786,78831	9:36
	3,28388,48633	493,01070	484,20543	1,45210,8052	41,01832	
15	98212,33556,77396	5 21744,28405	5 31241,09210	9,99216,60390,3488	10,71745,76999	9: 0
	3,28687,65822	492,11364	483,30821	1,45347,9587	40,98236	
14	98209,04869,11574	5 21252,17041	5 30757,78389	9,99215,15042,3901	10,71704,78763	8:24
	3,28986,82009	491,21904	482,41347	1,45485,1214	40,94646	
13	98205,75882,29565	5 20760,95137	5 30275,37042	9,99213,69557,2687	10,71663,84117	7:48
	3,29285,97193	490,32691	481,52120	1,45622,2933	40,91063	
12	98202,46596,32372	5 20270,62446	5 29793,84922	9,99212,23934,9754	10,71622,93054	7:12
	3,29585,11375	489,43725	480,63138	1,45759,4744	40,87487	
11	98199,17011,20997	5 19781,18721	5 29313,21784	9,99210,78175,5010	10,71582,05567	6:36
	3,29884,24553	488,55003	479,74402	1,45896,6647	40,83917	
10	98195,87126,96444	5 19292,63718	5 28833,47382	9,99209,32278,8363	10,71541,21650	6: 0
	3,30183,36726	487,66524	478,85909	1,46033,8642	40,80355	
9	98192,56943,59718	5 18804,97194	5 28354,61473	9,99207,86244,9721	10,71500,41295	5:24
	3,30482,47893	486,78290	477,97660	1,46171,0730	40,76800	
8	98189,26461,11825	5 18318,18904	5 27876,63813	9,99206,40073,8991	10,71459,64495	4:48
	3,30781,58053	485,90297	477,09652	1,46308,2910	40,73249	
7	98185,95679,53772	5 17832,28607	5 27399,54161	9,99204,93765,6081	10,71418,91246	4:12
	3,31080,67206	485,02546	476,21886	1,46445,5182	40,69708	
6	98182,64598,86566	5 17347,26061	5 26923,32275	9,99203,47320,0899	10,71378,21538	3:36
	3,31379,75350	484,15035	475,34361	1,46582,7546	40,66172	
5	98179,33219,11216	5 16863,11026	5 26447,97914	9,99202,00737,3353	10,71337,55366	3: 0
	3,31678,82485	483,27764	474,47074	1,46720,0005	40,62642	
4	98176,01540,28731	5 16379,83262	5 25973,50840	9,99200,54017,3348	10,71296,92724	2:24
	3,31977,88610	482,40731	473,60027	1,46857,2554	40,59120	
3	98172,69562,40121	5 15897,42531	5 25499,90813	9,99199,07160,0794	10,71256,33604	1:48
	3,32276,93722	481,53936	472,73218	1,46994,5198	40,55603	
2	98169,37285,46399	5 15415,88595	5 25027,17595	9,99197,60165,5596	10,71215,78001	1:12
	3,32575,97824	480,67379	471,86645	1,47131,7933	40,52094	
1	98166,04709,48575	5 14935,21216	5 24555,30950	9,99196,13033,7663	10,71175,25907	0:36
	3,32875,00911	479,81056	471,00308	1,47269,0763	40,48592	
0	98162,71834,47664	5 14455,40160	5 24084,30642	9,99194,65764,6900	10,71134,77315	0: 0
	3,33174,02985	478,94970	470,14207	1,47406,3684	40,45095	

GRAD. 79.

11. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
0	19080,89953,76545	19438,03091	1 01871,66950	9,28059,88449,5041	9,28865,22685	0: 0
	17,13233,56725	18,11336	3,45774	38,97688,6304	40,45095	
1	19098,03187,33270	19456,14427	1 01875,12724	9,28098,86138,1345	9,28905,67780	0:36
	17,13175,39132	18,11459	3,46108	38,94061,5098	40,41605	
2	19115,16362,72402	19474,25886	1 01878,58832	9,28137,80199,6443	9,28946,09385	1:12
	17,13117,16321	18,11582	3,46442	38,90440,8879	40,38122	
3	19132,29479,88723	19492,37468	1 01882,05274	9,28176,70640,5322	9,28986,47507	1:48
	17,13058,88290	18,11705	3,46776	38,86826,7468	40,34645	
4	19149,42538,77013	19510,49173	1 01885,52050	9,28215,57467,2790	9,29026,82152	2:24
	17,13000,55042	18,11828	3,47110	38,83219,0691	40,31175	
5	19166,55539,32055	19528,61001	1 01888,99160	9,28254,40686,3481	9,29067,13327	3: 0
	17,12942,16575	18,11953	3,47444	38,79617,8373	40,27710	
6	19183,68481,48630	19546,72954	1 01892,46604	9,28293,20304,1854	9,29107,41037	3:36
	17,12883,72890	18,12075	3,47778	38,76023,0338	40,24254	
7	19200,81365,21520	19564,85029	1 01895,94382	9,28331,96327,2192	9,29147,65291	4:12
	17,12825,23988	18,12200	3,48112	38,72434,6411	40,20802	
8	19217,94190,45508	19582,97229	1 01899,42494	9,28370,68761,8603	9,29187,86093	4:48
	17,12766,69868	18,12323	3,48447	38,68852,6420	40,17358	
9	19235,06957,15376	19601,09552	1 01902,90941	9,28409,37614,5023	9,29228,03451	5:24
	17,12708,10531	18,12447	3,48780	38,65277,0192	40,13919	
10	19252,19665,25907	19619,21999	1 01906,39721	9,28448,02891,5215	9,29268,17370	6: 0
	17,12649,45977	18,12572	3,49115	38,61707,7555	40,10488	
11	19269,32314,71884	19637,34571	1 01909,88836	9,28486,64599,2770	9,29308,27858	6:36
	17,12590,76205	18,12696	3,49450	38,58144,8336	40,07062	
12	19286,44905,48089	19655,47267	1 01913,38286	9,28525,22744,1106	9,29348,34920	7:12
	17,12532,01217	18,12820	3,49784	38,54588,2365	40,03643	
13	19303,57437,49306	19673,60087	1 01916,88070	9,28563,77332,3471	9,29388,38563	7:48
	17,12473,21012	18,12944	3,50118	38,51037,9471	40,00230	
14	19320,69910,70318	19691,73031	1 01920,38188	9,28602,28370,2942	9,29428,38793	8:24
	17,12414,35590	18,13069	3,50453	38,47493,9485	39,96823	
15	19337,82325,05908	19709,86100	1 01923,88641	9,28640,75864,2427	9,29468,35616	9: 0
	17,12355,44952	18,13194	3,50787	38,43956,2237	39,93423	
16	19354,94680,50860	19727,99294	1 01927,39428	9,28679,19820,4664	9,29508,29039	9:36
	17,12296,49099	18,13319	3,51123	38,40424,7558	39,90029	
17	19372,06976,99959	19746,12613	1 01930,90551	9,28717,60245,2222	9,29548,19068	10:12
	17,12237,48028	18,13444	3,51456	38,36899,5282	39,86641	
18	19389,19214,47987	19764,26057	1 01934,42007	9,28755,97144,7504	9,29588,05709	10:48
	17,12178,41743	18,13569	3,51792	38,33380,5240	39,83260	
19	19406,31392,89730	19782,39626	1 01937,93799	9,28794,30525,2744	9,29627,88969	11:24
	17,12119,30242	18,13694	3,52126	38,29867,7264	39,79885	
20	19423,43512,19972	19800,53320	1 01941,45925	9,28832,60393,0008	9,29667,68854	12: 0
	17,12060,13525	18,13820	3,52462	38,26361,1192	39,76515	
21	19440,55572,33497	19818,67140	1 01944,98387	9,28870,86754,1200	9,29707,45369	12:36
	17,12000,91593	18,13945	3,52796	38,22860,6853	39,73152	
22	19457,67573,25090	19836,81085	1 01948,51183	9,28909,09614,8053	9,29747,18521	13:12
	17,11941,64446	18,14070	3,53131	38,19366,4086	39,69796	
23	19474,79514,89536	19854,95155	1 01952,04314	9,28947,28981,2139	9,29786,88317	13:48
	17,11882,32084	18,14197	3,53467	38,15878,2726	39,66445	
24	19491,91397,21620	19873,09352	1 01955,57781	9,28985,44859,4865	9,29826,54762	14:24
	17,11822,94508	18,14322	3,53801	38,12396,2607	39,63100	
25	19509,03220,16128	19891,23674	1 01959,11582	9,29023,57255,7472	9,29866,17862	15: 0
	17,11763,51717	18,14448	3,54137	38,08920,3568	39,59762	
26	19526,14983,67845	19909,38122	1 01962,65719	9,29061,66176,1040	9,29905,77624	15:36
	17,11704,03711	18,14574	3,54471	38,05450,5444	39,56430	
27	19543,26687,71556	19927,52696	1 01966,20190	9,29099,71626,6484	9,29945,34054	16:12
	17,11644,50492	18,14701	3,54808	38,01986,8077	39,53104	
28	19560,38332,22048	19945,67397	1 01969,74998	9,29137,73613,4561	9,29984,87158	16:48
	17,11584,92059	18,14827	3,55142	37,98529,1301	39,49783	
29	19577,49917,14107	19963,82224	1 01973,30140	9,29175,72142,5862	9,30024,36941	17:24
	17,11525,28411	18,14953	3,55478	37,95077,4956	39,46470	
30	19594,61442,42518	19981,97177	1 01976,85618	9,29213,67220,0818	9,30063,83411	18: 0
	17,11465,59550	18,15080	3,55813	37,91631,8885	39,43161	
31	19611,72908,02068	20000,12257	1 01980,41431	9,29251,58851,9703	9,30103,26572	18:36
	17,11405,85476	18,15207	3,56149	37,88192,2924	39,39860	
32	19628,84313,87544	20018,27464	1 01983,97580	9,29289,47044,2627	9,30142,66432	19:12
	17,11346,06188	18,15333	3,56484	37,84758,6915	39,36563	
33	19645,95659,93732	20036,42797	1 01987,54064	9,29327,31802,9542	9,30182,02995	19:48
	17,11286,21688	18,15461	3,56820	37,81331,0701	39,33273	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
100	98162,71834,47664	5 14455,40160	5 24084,30642	9,99194,65764,6900	10,71134,77315	60: 0
	3,33174,02985	478,94970	470,14207	1,47406,3684	40,45095	
99	98159,38660,44679	5 13976,45190	5 23614,16435	9,99193,18358,3216	10,71094,32220	59:24
	3,33473,04045	478,09118	469,28341	1,47543,6700	40,41605	
98	98156,05187,40634	5 13498,36072	5 23144,88094	9,99191,70814,6516	10,71053,90615	58:48
	3,33772,04087	477,23500	468,42706	1,47680,9808	40,38122	
97	98152,71415,36547	5 13021,12572	5 22676,45388	9,99190,23133,6708	10,71013,52493	58:12
	3,34071,03114	476,38113	467,57306	1,47818,3011	40,34645	
96	98149,37344,33433	5 12544,74459	5 22208,88082	9,99188,75315,3697	10,70973,17848	57:36
	3,34370,01123	475,52960	466,72137	1,47955,6306	40,31175	
95	98146,02974,32310	5 12069,21499	5 21742,15945	9,99187,27359,7391	10,70932,86673	57: 0
	3,34668,98113	474,68036	465,87199	1,48092,9695	40,27710	
94	98142,68305,34197	5 11594,53463	5 21276,28746	9,99185,79266,7696	10,70892,58963	56:24
	3,34967,94084	473,83344	465,02492	1,48230,3177	40,24254	
93	98139,33337,40113	5 11120,70119	5 20811,26254	9,99184,31036,4519	10,70852,34709	55:48
	3,35266,89034	472,98879	464,18013	1,48367,6755	40,20802	
92	98135,98070,51079	5 10647,71240	5 20347,08241	9,99182,82668,7764	10,70812,13907	55:12
	3,35565,82963	472,14645	463,33763	1,48505,0424	40,17358	
91	98132,62504,68116	5 10175,56595	5 19883,74478	9,99181,34163,7340	10,70771,96549	54:36
	3,35864,75871	471,30638	462,49740	1,48642,4189	40,13919	
90	98129,26639,92245	5 09704,25957	5 19421,24738	9,99179,85521,3151	10,70731,82630	54: 0
	3,36163,67754	470,46857	461,65946	1,48779,8047	40,10488	
89	98125,90476,24491	5 09233,79100	5 18959,58792	9,99178,36741,5104	10,70691,72142	53:24
	3,36462,58614	469,63303	460,82376	1,48917,1999	40,07062	
88	98122,54013,65877	5 08764,15797	5 18498,76416	9,99176,87824,3105	10,70651,65080	52:48
	3,36761,48449	468,79973	459,99032	1,49054,6046	40,03643	
87	98119,17252,17428	5 08295,35824	5 18038,77384	9,99175,38769,7059	10,70611,61437	52:12
	3,37060,37258	467,96869	459,15912	1,49192,0188	40,00230	
86	98115,80191,80170	5 07827,38955	5 17579,61472	9,99173,89577,6871	10,70571,61207	51:36
	3,37359,25041	467,13988	458,33016	1,49329,4422	39,96823	
85	98112,42832,55129	5 07360,24967	5 17121,28456	9,99172,40248,2449	10,70531,64384	51: 0
	3,37658,11795	466,31329	457,50342	1,49466,8753	39,93423	
84	98109,05174,43334	5 06893,93638	5 16663,78114	9,99170,90781,3696	10,70491,70961	50:24
	3,37956,97521	465,48893	456,67892	1,49604,3177	39,90029	
83	98105,67217,45813	5 06428,44745	5 16207,10222	9,99169,41177,0519	10,70451,80932	49:48
	3,38255,82218	464,66678	455,85661	1,49741,7696	39,86641	
82	98102,28961,63595	5 05963,78067	5 15751,24561	9,99167,91435,2823	10,70411,94291	49:12
	3,38554,65884	463,84684	455,03652	1,49879,2310	39,83260	
81	98098,90406,97711	5 05499,93383	5 15296,20909	9,99166,41556,0513	10,70372,11031	48:36
	3,38853,48519	463,02909	454,21862	1,50016,7019	39,79885	
80	98095,51553,49192	5 05036,90474	5 14841,99047	9,99164,91539,3494	10,70332,31146	48: 0
	3,39152,30122	462,21352	453,40291	1,50154,1823	39,76515	
79	98092,12401,19070	5 04574,69122	5 14388,58756	9,99163,41385,1671	10,70292,54631	47:24
	3,39451,10692	461,40015	452,58937	1,50291,6722	39,73152	
78	98088,72950,08378	5 04113,29107	5 13935,99819	9,99161,91093,4949	10,70252,81479	46:48
	3,39749,90227	460,58894	451,77802	1,50429,1716	39,69796	
77	98085,33200,18151	5 03652,70213	5 13484,22017	9,99160,40664,3233	10,70213,11683	46:12
	3,40048,68728	459,77990	450,96883	1,50566,6805	39,66445	
76	98081,93151,49423	5 03192,92223	5 13033,25134	9,99158,90097,6428	10,70173,45238	45:36
	3,40347,46193	458,97302	450,16179	1,50704,1990	39,63100	
75	98078,52804,03230	5 02733,94921	5 12583,08955	9,99157,39393,4438	10,70133,82138	45: 0
	3,40646,22620	458,16828	449,35691	1,50841,7270	39,59762	
74	98075,12157,80610	5 02275,78093	5 12133,73264	9,99155,88551,7168	10,70094,22376	44:24
	3,40944,98011	457,36569	448,55417	1,50979,2646	39,56430	
73	98071,71212,82599	5 01818,41524	5 11685,17847	9,99154,37572,4522	10,70054,65946	43:48
	3,41243,72363	456,56524	447,75355	1,51116,8117	39,53104	
72	98068,29969,10236	5 01361,85000	5 11237,42492	9,99152,86455,6405	10,70015,12842	43:12
	3,41542,45676	455,76691	446,95508	1,51254,3684	39,49783	
71	98064,88426,64560	5 00906,08309	5 10790,46984	9,99151,35201,2721	10,69975,63059	42:36
	3,41841,17947	454,97070	446,15872	1,51391,9347	39,46470	
70	98061,46585,46613	5 00451,11239	5 10344,31112	9,99149,83809,3374	10,69936,16589	42: 0
	3,42139,89178	454,17660	445,36447	1,51529,5106	39,43161	
69	98058,04445,57435	4 99996,93579	5 09898,94665	9,99148,32279,8268	10,69896,73428	41:24
	3,42438,59366	453,38462	444,57232	1,51667,0960	39,39860	
68	98054,62006,98069	4 99543,55117	5 09454,37433	9,99146,80612,7308	10,69857,33568	40:48
	3,42737,28512	452,59471	443,78228	1,51804,6911	39,36563	
67	98051,19269,69557	4 99090,95646	5 09010,59205	9,99145,28808,0397	10,69817,97005	40:12
	3,43035,96613	451,80692	442,99432	1,51942,2959	39,33273	

GRAD. 78.

11. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	19645,95659,93732	20036,42797	1 01987,54064	9,29327,31802,9542	9,30182,02995	19:48
	17,11286,21688	18,15461	3,56820	37,81331,0701	39,33273	
34	19663,06946,15420	20054,58258	1 01991,10884	9,29365,13134,0243	9,30221,36268	20:24
	17,11226,31974	18,15587	3,57156	37,77909,4123	39,29990	
35	19680,18172,47394	20072,73845	1 01994,68040	9,29402,91043,4366	9,30260,66258	21: 0
	17,11166,37049	18,15715	3,57491	37,74493,7021	39,26711	
36	19697,29338,84443	20090,89560	1 01998,25531	9,29440,65537,1387	9,30299,92969	21:36
	17,11106,36909	18,15842	3,57827	37,71083,9240	39,23439	
37	19714,40445,21352	20109,05402	1 02001,83358	9,29478,36621,0627	9,30339,16408	22:12
	17,11046,31559	18,15970	3,58163	37,67680,0626	39,20173	
38	19731,51491,52911	20127,21372	1 02005,41521	9,29516,04301,1253	9,30378,36581	22:48
	17,10986,20995	18,16097	3,58499	37,64282,1018	39,16912	
39	19748,62477,73906	20145,37469	1 02009,00020	9,29553,68583,2271	9,30417,53493	23:24
	17,10926,05220	18,16225	3,58835	37,60890,0265	39,13659	
40	19765,73403,79126	20163,53694	1 02012,58855	9,29591,29473,2536	9,30456,67152	24: 0
	17,10865,84234	18,16352	3,59170	37,57503,8209	39,10409	
41	19782,84269,63360	20181,70046	1 02016,18025	9,29628,86977,0745	9,30495,77561	24:36
	17,10805,58034	18,16481	3,59507	37,54123,4698	39,07167	
42	19799,95075,21394	20199,86527	1 02019,77532	9,29666,41100,5443	9,30534,84728	25:12
	17,10745,26625	18,16609	3,59843	37,50748,9576	39,03930	
43	19817,05820,48019	20218,03136	1 02023,37375	9,29703,91849,5019	9,30573,88658	25:48
	17,10684,90004	18,16737	3,60180	37,47380,2693	39,00699	
44	19834,16505,38023	20236,19873	1 02026,97555	9,29741,39229,7712	9,30612,89357	26:24
	17,10624,48172	18,16865	3,60515	37,44017,3893	38,97474	
45	19851,27129,86195	20254,36738	1 02030,58070	9,29778,83247,1605	9,30651,86831	27: 0
	17,10564,01129	18,16994	3,60852	37,40660,3026	38,94255	
46	19868,37693,87324	20272,53732	1 02034,18922	9,29816,23907,4631	9,30690,81086	27:36
	17,10503,48875	18,17122	3,61188	37,37308,9939	38,91041	
47	19885,48197,36199	20290,70854	1 02037,80110	9,29853,61216,4570	9,30729,72127	28:12
	17,10442,91410	18,17251	3,61524	37,33963,4483	38,87833	
48	19902,58640,27609	20308,88105	1 02041,41634	9,29890,95179,9053	9,30768,59960	28:48
	17,10382,28737	18,17380	3,61862	37,30623,6504	38,84631	
49	19919,69022,56346	20327,05485	1 02045,03496	9,29928,25803,5557	9,30807,44591	29:24
	17,10321,60851	18,17509	3,62197	37,27289,5856	38,81435	
50	19936,79344,17197	20345,22994	1 02048,65693	9,29965,53093,1413	9,30846,26026	30: 0
	17,10260,87757	18,17638	3,62534	37,23961,2386	38,78245	
51	19953,89605,04954	20363,40632	1 02052,28227	9,30002,77054,3799	9,30885,04271	30:36
	17,10200,09453	18,17767	3,62871	37,20638,5947	38,75059	
52	19970,99805,14407	20381,58399	1 02055,91098	9,30039,97692,9746	9,30923,79330	31:12
	17,10139,25939	18,17897	3,63208	37,17321,6391	38,71880	
53	19988,09944,40346	20399,76296	1 02059,54306	9,30077,15014,6137	9,30962,51210	31:48
	17,10078,37216	18,18026	3,63544	37,14010,3567	38,68707	
54	20005,20022,77562	20417,94322	1 02063,17850	9,30114,29024,9704	9,31001,19917	32:24
	17,10017,43283	18,18155	3,63881	37,10704,7332	38,65539	
55	20022,30040,20845	20436,12477	1 02066,81731	9,30151,39729,7036	9,31039,85456	33: 0
	17,09956,44141	18,18285	3,64218	37,07404,7535	38,62377	
56	20039,39996,64986	20454,30762	1 02070,45949	9,30188,47134,4571	9,31078,47833	33:36
	17,09895,39792	18,18416	3,64555	37,04110,4032	38,59220	
57	20056,49892,04778	20472,49178	1 02074,10504	9,30225,51244,8603	9,31117,07053	34:12
	17,09834,30232	18,18545	3,64892	37,00821,6676	38,56069	
58	20073,59726,35010	20490,67723	1 02077,75396	9,30262,52066,5279	9,31155,63122	34:48
	17,09773,15465	18,18675	3,65229	36,97538,5322	38,52925	
59	20090,69499,50475	20508,86398	1 02081,40625	9,30299,49605,0601	9,31194,16047	35:24
	17,09711,95490	18,18805	3,65566	36,94260,9825	38,49784	
60	20107,79211,45965	20527,05203	1 02085,06191	9,30336,43866,0426	9,31232,65831	36: 0
	17,09650,70305	18,18935	3,65903	36,90989,0041	38,46650	
61	20124,88862,16270	20545,24138	1 02088,72094	9,30373,34855,0467	9,31271,12481	36:36
	17,09589,39914	18,19067	3,66241	36,87722,5825	38,43522	
62	20141,98451,56184	20563,43205	1 02092,38335	9,30410,22577,6292	9,31309,56003	37:12
	17,09528,04315	18,19196	3,66578	36,84461,7035	38,40399	
63	20159,07979,60499	20581,62401	1 02096,04913	9,30447,07039,3327	9,31347,96402	37:48
	17,09466,63508	18,19328	3,66915	36,81206,3527	38,37281	
64	20176,17446,24007	20599,81729	1 02099,71828	9,30483,88245,6854	9,31386,33683	38:24
	17,09405,17494	18,19458	3,67252	36,77956,5158	38,34169	
65	20193,26851,41501	20618,01187	1 02103,39080	9,30520,66202,2012	9,31424,67852	39: 0
	17,09343,66272	18,19589	3,67590	36,74712,1788	38,31063	
66	20210,36195,07773	20636,20776	1 02107,06670	9,30557,40914,3800	9,31462,98915	39:36
	17,09282,09844	18,19720	3,67928	36,71473,3274	38,27962	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	98051,19269,69557	4 99090,95646	5 09010,59205	9,99145,28808,0397	10,69817,97005	40:12
	3,43035,96613	451,80692	442,99432	1,51942,2959	39,33273	
66	98047,76233,72944	4 98639,14954	5 08567,59773	9,99143,76865,7438	10,69778,63732	39:36
	3,43334,63669	451,02119	442,20845	1,52079,9101	39,29990	
65	98044,32899,09275	4 98188,12835	5 08125,38928	9,99142,24785,8337	10,69739,33742	39: 0
	3,43633,29679	450,23754	441,42465	1,52217,5342	39,26711	
64	98040,89265,79596	4 97737,89081	5 07683,96463	9,99140,72568,2995	10,69700,07031	38:24
	3,43931,94644	449,45597	440,64291	1,52355,1678	39,23439	
63	98037,45333,84952	4 97288,43484	5 07243,32172	9,99139,20213,1317	10,69660,83592	37:48
	3,44230,58559	448,67645	439,86325	1,52492,8110	39,20173	
62	98034,01103,26393	4 96839,75839	5 06803,45847	9,99137,67720,3207	10,69621,63419	37:12
	3,44529,21427	447,89898	439,08562	1,52630,4640	39,16912	
61	98030,56574,04966	4 96391,85941	5 06364,37285	9,99136,15089,8567	10,69582,46507	36:36
	3,44827,83244	447,12356	438,31006	1,52768,1266	39,13659	
60	98027,11746,21722	4 95944,73585	5 05926,06279	9,99134,62321,7301	10,69543,32848	36: 0
	3,45126,44012	446,35019	437,53652	1,52905,7989	39,10409	
59	98023,66619,77710	4 95498,38566	5 05488,52627	9,99133,09415,9312	10,69504,22439	35:24
	3,45425,03729	445,57884	436,76502	1,53043,4810	39,07167	
58	98020,21194,73981	4 95052,80682	5 05051,76125	9,99131,56372,4502	10,69465,15272	34:48
	3,45723,62392	444,80952	435,99555	1,53181,1726	39,03930	
57	98016,75471,11589	4 94607,99730	5 04615,76570	9,99130,03191,2776	10,69426,11342	34:12
	3,46022,20003	444,04221	435,22808	1,53318,8740	39,00699	
56	98013,29448,91586	4 94163,95509	5 04180,53762	9,99128,49872,4036	10,69387,10643	33:36
	3,46320,76560	443,27692	434,46264	1,53456,5852	38,97474	
55	98009,83128,15026	4 93720,67817	5 03746,07498	9,99126,96415,8184	10,69348,13169	33: 0
	3,46619,32062	442,51362	433,69920	1,53594,3060	38,94255	
54	98006,36508,82964	4 93278,16455	5 03312,37578	9,99125,42821,5124	10,69309,18914	32:24
	3,46917,86508	441,75234	432,93774	1,53732,0367	38,91041	
53	98002,89590,96456	4 92836,41221	5 02879,43804	9,99123,89089,4757	10,69270,27873	31:48
	3,47216,39896	440,99303	432,17829	1,53869,7770	38,87833	
52	97999,42374,56560	4 92395,41918	5 02447,25975	9,99122,35219,6987	10,69231,40040	31:12
	3,47514,92229	440,23571	431,42081	1,54007,5272	38,84631	
51	97995,94859,64331	4 91955,18347	5 02015,83894	9,99120,81212,1715	10,69192,55409	30:36
	3,47813,43501	439,48036	430,66531	1,54145,2870	38,81435	
50	97992,47046,20830	4 91515,70311	5 01585,17363	9,99119,27066,8845	10,69153,73974	30: 0
	3,48111,93715	438,72699	429,91179	1,54283,0568	38,78245	
49	97988,98934,27115	4 91076,97612	5 01155,26184	9,99117,72783,8277	10,69114,95729	29:24
	3,48410,42868	437,97558	429,16021	1,54420,8362	38,75059	
48	97985,50523,84247	4 90639,00054	5 00726,10163	9,99116,18362,9915	10,69076,20670	28:48
	3,48708,90960	437,22611	428,41060	1,54558,6254	38,71880	
47	97982,01814,93287	4 90201,77443	5 00297,69103	9,99114,63804,3661	10,69037,48790	28:12
	3,49007,37989	436,47861	427,66293	1,54696,4246	38,68707	
46	97978,52807,55298	4 89765,29582	4 99870,02810	9,99113,09107,9415	10,68998,80083	27:36
	3,49305,83955	435,73303	426,91721	1,54834,2334	38,65539	
45	97975,03501,71343	4 89329,56279	4 99443,11089	9,99111,54273,7081	10,68960,14544	27: 0
	3,49604,28858	434,98941	426,17342	1,54972,0521	38,62377	
44	97971,53897,42485	4 88894,57338	4 99016,93747	9,99109,99301,6560	10,68921,52167	26:24
	3,49902,72695	434,24770	425,43156	1,55109,8807	38,59220	
43	97968,03994,69790	4 88460,32568	4 98591,50591	9,99108,44191,7753	10,68882,92947	25:48
	3,50201,15466	433,50792	424,69162	1,55247,7190	38,56069	
42	97964,53793,54324	4 88026,81776	4 98166,81429	9,99106,88944,0563	10,68844,36878	25:12
	3,50499,57172	432,77005	423,95360	1,55385,5674	38,52925	
41	97961,03293,97152	4 87594,04771	4 97742,86069	9,99105,33558,4889	10,68805,83953	24:36
	3,50797,97808	432,03409	423,21749	1,55523,4254	38,49784	
40	97957,52495,99344	4 87162,01362	4 97319,64320	9,99103,78035,0635	10,68767,34169	24: 0
	3,51096,37377	431,30004	422,48327	1,55661,2934	38,46650	
39	97954,01399,61967	4 86730,71358	4 96897,15993	9,99102,22373,7701	10,68728,87519	23:24
	3,51394,75875	430,56787	421,75095	1,55799,1713	38,43522	
38	97950,50004,86092	4 86300,14571	4 96475,40898	9,99100,66574,5988	10,68690,43997	22:48
	3,51693,13304	429,83760	421,02053	1,55937,0591	38,40399	
37	97946,98311,72788	4 85870,30811	4 96054,38845	9,99099,10637,5397	10,68652,03598	22:12
	3,51991,49662	429,10921	420,29197	1,56074,9568	38,37281	
36	97943,46320,23126	4 85441,19890	4 95634,09648	9,99097,54562,5829	10,68613,66317	21:36
	3,52289,84946	428,38270	419,56531	1,56212,8643	38,34169	
35	97939,94030,38180	4 85012,81620	4 95214,53117	9,99095,98349,7186	10,68575,32148	21: 0
	3,52588,19158	427,65805	418,84051	1,56350,7818	38,31063	
34	97936,41442,19022	4 84585,15815	4 94795,69066	9,99094,41998,9368	10,68537,01085	20:24
	3,52886,52296	426,93527	418,11756	1,56488,7092	38,27962	

GRAD. 78.

11. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	20227,45477,17617	20654,40496	1 02110,74598	9,30594,12387,7074	9,31501,26877	40:12
	17,09220,48209	18,19851	3,68265	36,68239,9476	38,24867	
68	20244,54697,65826	20672,60347	1 02114,42863	9,30630,80627,6550	9,31539,51744	40:48
	17,09158,81367	18,19983	3,68603	36,65012,0252	38,21777	
69	20261,63856,47193	20690,80330	1 02118,11466	9,30667,45639,6802	9,31577,73521	41:24
	17,09097,09319	18,20114	3,68940	36,61789,5464	38,18692	
70	20278,72953,56512	20709,00444	1 02121,80406	9,30704,07429,2266	9,31615,92213	42: 0
	17,09035,32065	18,20246	3,69279	36,58572,4971	38,15613	
71	20295,81988,88577	20727,20690	1 02125,49685	9,30740,66001,7237	9,31654,07826	42:36
	17,08973,49605	18,20377	3,69616	36,55360,8634	38,12539	
72	20312,90962,38182	20745,41067	1 02129,19301	9,30777,21362,5871	9,31692,20365	43:12
	17,08911,61939	18,20510	3,69954	36,52154,6315	38,09471	
73	20329,99874,00121	20763,61577	1 02132,89255	9,30813,73517,2186	9,31730,29836	43:48
	17,08849,69067	18,20641	3,70291	36,48953,7876	38,06409	
74	20347,08723,69188	20781,82218	1 02136,59546	9,30850,22471,0062	9,31768,36245	44:24
	17,08787,70989	18,20773	3,70630	36,45758,3179	38,03350	
75	20364,17511,40177	20800,02991	1 02140,30176	9,30886,68229,3241	9,31806,39595	45: 0
	17,08725,67708	18,20906	3,70968	36,42568,2086	38,00299	
76	20381,26237,07885	20818,23897	1 02144,01144	9,30923,10797,5327	9,31844,39894	45:36
	17,08663,59219	18,21038	3,71306	36,39383,4462	37,97252	
77	20398,34900,67104	20836,44935	1 02147,72450	9,30959,50180,9789	9,31882,37146	46:12
	17,08601,45528	18,21170	3,71645	36,36204,0169	37,94211	
78	20415,43502,12632	20854,66105	1 02151,44095	9,30995,86384,9958	9,31920,31357	46:48
	17,08539,26630	18,21303	3,71982	36,33029,9074	37,91174	
79	20432,52041,39262	20872,87408	1 02155,16077	9,31032,19414,9032	9,31958,22531	47:24
	17,08477,02528	18,21435	3,72321	36,29861,1037	37,88144	
80	20449,60518,41790	20891,08843	1 02158,88398	9,31068,49276,0069	9,31996,10675	48: 0
	17,08414,73223	18,21569	3,72659	36,26697,5928	37,85118	
81	20466,68933,15013	20909,30412	1 02162,61057	9,31104,75973,5997	9,32033,95793	48:36
	17,08352,38712	18,21701	3,72998	36,23539,3609	37,82098	
82	20483,77285,53725	20927,52113	1 02166,34055	9,31140,99512,9606	9,32071,77891	49:12
	17,08289,98999	18,21835	3,73336	36,20386,3949	37,79084	
83	20500,85575,52724	20945,73948	1 02170,07391	9,31177,19899,3555	9,32109,56975	49:48
	17,08227,54081	18,21967	3,73674	36,17238,6812	37,76073	
84	20517,93803,06805	20963,95915	1 02173,81065	9,31213,37138,0367	9,32147,33048	50:24
	17,08165,03959	18,22101	3,74013	36,14096,2066	37,73070	
85	20535,01968,10764	20982,18016	1 02177,55078	9,31249,51234,2433	9,32185,06118	51: 0
	17,08102,48635	18,22235	3,74352	36,10958,9579	37,70070	
86	20552,10070,59399	21000,40251	1 02181,29430	9,31285,62193,2012	9,32222,76188	51:36
	17,08039,88106	18,22368	3,74691	36,07826,9218	37,67076	
87	20569,18110,47505	21018,62619	1 02185,04121	9,31321,70020,1230	9,32260,43264	52:12
	17,07977,22376	18,22502	3,75029	36,04700,0852	37,64088	
88	20586,26087,69881	21036,85121	1 02188,79150	9,31357,74720,2082	9,32298,07352	52:48
	17,07914,51443	18,22635	3,75368	36,01578,4348	37,61104	
89	20603,34002,21324	21055,07756	1 02192,54518	9,31393,76298,6430	9,32335,68456	53:24
	17,07851,75306	18,22770	3,75707	35,98461,9578	37,58126	
90	20620,41853,96630	21073,30526	1 02196,30225	9,31429,74760,6008	9,32373,26582	54: 0
	17,07788,93967	18,22903	3,76046	35,95350,6408	37,55152	
91	20637,49642,90597	21091,53429	1 02200,06271	9,31465,70111,2416	9,32410,81734	54:36
	17,07726,07426	18,23038	3,76385	35,92244,4712	37,52185	
92	20654,57368,98023	21109,76467	1 02203,82656	9,31501,62355,7128	9,32448,33919	55:12
	17,07663,15684	18,23172	3,76725	35,89143,4358	37,49222	
93	20671,65032,13707	21127,99639	1 02207,59381	9,31537,51499,1486	9,32485,83141	55:48
	17,07600,18739	18,23307	3,77063	35,86047,5217	37,46264	
94	20688,72632,32446	21146,22946	1 02211,36444	9,31573,37546,6703	9,32523,29405	56:24
	17,07537,16592	18,23441	3,77402	35,82956,7161	37,43311	
95	20705,80169,49038	21164,46387	1 02215,13846	9,31609,20503,3864	9,32560,72716	57: 0
	17,07474,09245	18,23576	3,77742	35,79871,0062	37,40364	
96	20722,87643,58283	21182,69963	1 02218,91588	9,31645,00374,3926	9,32598,13080	57:36
	17,07410,96695	18,23711	3,78081	35,76790,3792	37,37422	
97	20739,95054,54978	21200,93674	1 02222,69669	9,31680,77164,7718	9,32635,50502	58:12
	17,07347,78945	18,23846	3,78420	35,73714,8223	37,34484	
98	20757,02402,33923	21219,17520	1 02226,48089	9,31716,50879,5941	9,32672,84986	58:48
	17,07284,55994	18,23981	3,78760	35,70644,3229	37,31552	
99	20774,09686,89917	21237,41501	1 02230,26849	9,31752,21523,9170	9,32710,16538	59:24
	17,07221,27842	18,24116	3,79100	35,67578,8682	37,28625	
100	20791,16908,17759	21255,65617	1 02234,05949	9,31787,89102,7852	9,32747,45163	60: 0
	17,07157,94490	18,24251	3,79439	35,64518,4459	37,25702	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	97932,88555,66726	4 84158,22288	4 94377,57310	9,99092,85510,2276	10,68498,73123	19:48
	3,53184,84359	426,21435	417,39649	1,56626,6467	38,24867	
32	97929,35370,82367	4 83732,00853	4 93960,17661	9,99091,28883,5809	10,68460,48256	19:12
	3,53483,15345	425,49527	416,67725	1,56764,5939	38,21777	
31	97925,81887,67022	4 83306,51326	4 93543,49936	9,99089,72118,9870	10,68422,26479	18:36
	3,53781,45256	424,77804	415,95987	1,56902,5512	38,18692	
30	97922,28106,21766	4 82881,73522	4 93127,53949	9,99088,15216,4358	10,68384,07787	18: 0
	3,54079,74089	424,06265	415,24431	1,57040,5185	38,15613	
29	97918,74026,47677	4 82457,67257	4 92712,29518	9,99086,58175,9173	10,68345,92174	17:24
	3,54378,01842	423,34909	414,53060	1,57178,4957	38,12539	
28	97915,19648,45835	4 82034,32348	4 92297,76458	9,99085,00997,4216	10,68307,79635	16:48
	3,54676,28517	422,63735	413,81870	1,57316,4829	38,09471	
27	97911,64972,17318	4 81611,68613	4 91883,94588	9,99083,43680,9387	10,68269,70164	16:12
	3,54974,54111	421,92744	413,10863	1,57454,4801	38,06409	
26	97908,09997,63207	4 81189,75869	4 91470,83725	9,99081,86226,4586	10,68231,63755	15:36
	3,55272,78623	421,21933	412,40036	1,57592,4874	38,03350	
25	97904,54724,84584	4 80768,53936	4 91058,43689	9,99080,28633,9712	10,68193,60405	15: 0
	3,55571,02054	420,51303	411,69391	1,57730,5046	38,00299	
24	97900,99153,82530	4 80348,02633	4 90646,74298	9,99078,70903,4666	10,68155,60106	14:24
	3,55869,24402	419,80854	410,98926	1,57868,5318	37,97252	
23	97897,43284,58128	4 79928,21779	4 90235,75372	9,99077,13034,9348	10,68117,62854	13:48
	3,56167,45664	419,10584	410,28639	1,58006,5691	37,94211	
22	97893,87117,12464	4 79509,11195	4 89825,46733	9,99075,55028,3657	10,68079,68643	13:12
	3,56465,65843	418,40492	409,58532	1,58144,6165	37,91174	
21	97890,30651,46621	4 79090,70703	4 89415,88201	9,99073,96883,7492	10,68041,77469	12:36
	3,56763,84936	417,70579	408,88603	1,58282,6739	37,88144	
20	97886,73887,61685	4 78673,00124	4 89006,99598	9,99072,38601,0753	10,68003,89325	12: 0
	3,57062,02941	417,00844	408,18852	1,58420,7413	37,85118	
19	97883,16825,58744	4 78255,99280	4 88598,80746	9,99070,80180,3340	10,67966,04207	11:24
	3,57360,19860	416,31285	407,49277	1,58558,8189	37,82098	
18	97879,59465,38884	4 77839,67995	4 88191,31469	9,99069,21621,5151	10,67928,22109	10:48
	3,57658,35689	415,61903	406,79880	1,58696,9064	37,79084	
17	97876,01807,03195	4 77424,06092	4 87784,51589	9,99067,62924,6087	10,67890,43025	10:12
	3,57956,50429	414,92697	406,10657	1,58835,0042	37,76073	
16	97872,43850,52766	4 77009,13395	4 87378,40932	9,99066,04089,6045	10,67852,66952	9:36
	3,58254,64078	414,23665	405,41610	1,58973,1120	37,73070	
15	97868,85595,88688	4 76594,89730	4 86972,99322	9,99064,45116,4925	10,67814,93882	9: 0
	3,58552,76637	413,54810	404,72737	1,59111,2299	37,70070	
14	97865,27043,12051	4 76181,34920	4 86568,26585	9,99062,86005,2626	10,67777,23812	8:24
	3,58850,88103	412,86127	404,04040	1,59249,3580	37,67076	
13	97861,68192,23948	4 75768,48793	4 86164,22545	9,99061,26755,9046	10,67739,56736	7:48
	3,59148,98476	412,17618	403,35514	1,59387,4961	37,64088	
12	97858,09043,25472	4 75356,31175	4 85760,87031	9,99059,67368,4085	10,67701,92648	7:12
	3,59447,07755	411,49282	402,67163	1,59525,6444	37,61104	
11	97854,49596,17717	4 74944,81893	4 85358,19868	9,99058,07842,7641	10,67664,31544	6:36
	3,59745,15939	410,81118	401,98982	1,59663,8029	37,58126	
10	97850,89851,01778	4 74534,00775	4 84956,20886	9,99056,48178,9612	10,67626,73418	6: 0
	3,60043,23027	410,13127	401,30975	1,59801,9715	37,55152	
9	97847,29807,78751	4 74123,87648	4 84554,89911	9,99054,88376,9897	10,67589,18266	5:24
	3,60341,29018	409,45306	400,63138	1,59940,1503	37,52185	
8	97843,69466,49733	4 73714,42342	4 84154,26773	9,99053,28436,8394	10,67551,66081	4:48
	3,60639,33912	408,77655	399,95472	1,60078,3392	37,49222	
7	97840,08827,15821	4 73305,64687	4 83754,31301	9,99051,68358,5002	10,67514,16859	4:12
	3,60937,37707	408,10176	399,27975	1,60216,5384	37,46264	
6	97836,47889,78114	4 72897,54511	4 83355,03326	9,99050,08141,9618	10,67476,70595	3:36
	3,61235,40403	407,42864	398,60649	1,60354,7478	37,43311	
5	97832,86654,37711	4 72490,11647	4 82956,42677	9,99048,47787,2140	10,67439,27284	3: 0
	3,61533,41999	406,75723	397,93490	1,60492,9673	37,40364	
4	97829,25120,95712	4 72083,35924	4 82558,49187	9,99046,87294,2467	10,67401,86920	2:24
	3,61831,42492	406,08749	397,26501	1,60631,1971	37,37422	
3	97825,63289,53220	4 71677,27175	4 82161,22686	9,99045,26663,0496	10,67364,49498	1:48
	3,62129,41884	405,41943	396,59679	1,60769,4371	37,34484	
2	97822,01160,11336	4 71271,85232	4 81764,63007	9,99043,65893,6125	10,67327,15014	1:12
	3,62427,40173	404,75305	395,93024	1,60907,6873	37,31552	
1	97818,38732,71163	4 70867,09927	4 81368,69983	9,99042,04985,9252	10,67289,83462	0:36
	3,62725,37357	404,08832	395,26536	1,61045,9477	37,28625	
0	97814,76007,33806	4 70463,01095	4 80973,43447	9,99040,43939,9775	10,67252,54837	0: 0
	3,63023,33438	403,42527	394,60213	1,61184,2186	37,25702	

GRAD. 78.

12. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
0	20791,16908,17759	21255,65617	1 02234,05949	9,31787,89102,7852	9,32747,45163	0: 0
	17,07157,94490	18,24251	3,79439	35,64518,4459	37,25702	
1	20808,24066,12249	21273,89868	1 02237,85388	9,31823,53621,2311	9,32784,70865	0:36
	17,07094,55938	18,24387	3,79778	35,61463,0431	37,22786	
2	20825,31160,68187	21292,14255	1 02241,65166	9,31859,15084,2742	9,32821,93651	1:12
	17,07031,12185	18,24523	3,80118	35,58412,6473	37,19873	
3	20842,38191,80372	21310,38778	1 02245,45284	9,31894,73496,9215	9,32859,13524	1:48
	17,06967,63232	18,24658	3,80458	35,55367,2464	37,16967	
4	20859,45159,43604	21328,63436	1 02249,25742	9,31930,28864,1679	9,32896,30491	2:24
	17,06904,09080	18,24794	3,80798	35,52326,8274	37,14064	
5	20876,52063,52684	21346,88230	1 02253,06540	9,31965,81190,9953	9,32933,44555	3: 0
	17,06840,49728	18,24930	3,81138	35,49291,3783	37,11167	
6	20893,58904,02412	21365,13160	1 02256,87678	9,32001,30482,3736	9,32970,55722	3:36
	17,06776,85177	18,25066	3,81477	35,46260,8867	37,08275	
7	20910,65680,87589	21383,38226	1 02260,69155	9,32036,76743,2603	9,33007,63997	4:12
	17,06713,15426	18,25202	3,81818	35,43235,3400	37,05388	
8	20927,72394,03015	21401,63428	1 02264,50973	9,32072,19978,6003	9,33044,69385	4:48
	17,06649,40477	18,25339	3,82157	35,40214,7263	37,02505	
9	20944,79043,43492	21419,88767	1 02268,33130	9,32107,60193,3266	9,33081,71890	5:24
	17,06585,60330	18,25475	3,82498	35,37199,0331	36,99628	
10	20961,85629,03822	21438,14242	1 02272,15628	9,32142,97392,3597	9,33118,71518	6: 0
	17,06521,74983	18,25612	3,82838	35,34188,2483	36,96756	
11	20978,92150,78805	21456,39854	1 02275,98466	9,32178,31580,6080	9,33155,68274	6:36
	17,06457,84437	18,25749	3,83178	35,31182,3598	36,93888	
12	20995,98608,63242	21474,65603	1 02279,81644	9,32213,62762,9678	9,33192,62162	7:12
	17,06393,88695	18,25885	3,83519	35,28181,3553	36,91026	
13	21013,05002,51937	21492,91488	1 02283,65163	9,32248,90944,3231	9,33229,53188	7:48
	17,06329,87754	18,26023	3,83859	35,25185,2229	36,88168	
14	21030,11332,39691	21511,17511	1 02287,49022	9,32284,16129,5460	9,33266,41356	8:24
	17,06265,81615	18,26159	3,84199	35,22193,9504	36,85315	
15	21047,17598,21306	21529,43670	1 02291,33221	9,32319,38323,4964	9,33303,26671	9: 0
	17,06201,70278	18,26297	3,84539	35,19207,5261	36,82467	
16	21064,23799,91584	21547,69967	1 02295,17760	9,32354,57531,0225	9,33340,09138	9:36
	17,06137,53745	18,26434	3,84881	35,16225,9377	36,79624	
17	21081,29937,45329	21565,96401	1 02299,02641	9,32389,73756,9602	9,33376,88762	10:12
	17,06073,32013	18,26572	3,85221	35,13249,1734	36,76785	
18	21098,36010,77342	21584,22973	1 02302,87862	9,32424,87006,1336	9,33413,65547	10:48
	17,06009,05086	18,26709	3,85561	35,10277,2215	36,73953	
19	21115,42019,82428	21602,49682	1 02306,73423	9,32459,97283,3551	9,33450,39500	11:24
	17,05944,72961	18,26847	3,85902	35,07310,0699	36,71123	
20	21132,47964,55389	21620,76529	1 02310,59325	9,32495,04593,4250	9,33487,10623	12: 0
	17,05880,35639	18,26985	3,86243	35,04347,7069	36,68299	
21	21149,53844,91028	21639,03514	1 02314,45568	9,32530,08941,1319	9,33523,78922	12:36
	17,05815,93122	18,27123	3,86584	35,01390,1208	36,65481	
22	21166,59660,84150	21657,30637	1 02318,32152	9,32565,10331,2527	9,33560,44403	13:12
	17,05751,45407	18,27261	3,86925	34,98437,2997	36,62666	
23	21183,65412,29557	21675,57898	1 02322,19077	9,32600,08768,5524	9,33597,07069	13:48
	17,05686,92498	18,27400	3,87266	34,95489,2322	36,59857	
24	21200,71099,22055	21693,85298	1 02326,06343	9,32635,04257,7846	9,33633,66926	14:24
	17,05622,34391	18,27537	3,87607	34,92545,9063	36,57051	
25	21217,76721,56446	21712,12835	1 02329,93950	9,32669,96803,6909	9,33670,23977	15: 0
	17,05557,71090	18,27677	3,87948	34,89607,3108	36,54252	
26	21234,82279,27536	21730,40512	1 02333,81898	9,32704,86411,0017	9,33706,78229	15:36
	17,05493,02594	18,27815	3,88289	34,86673,4337	36,51456	
27	21251,87772,30130	21748,68327	1 02337,70187	9,32739,73084,4354	9,33743,29685	16:12
	17,05428,28901	18,27953	3,88630	34,83744,2637	36,48666	
28	21268,93200,59031	21766,96280	1 02341,58817	9,32774,56828,6991	9,33779,78351	16:48
	17,05363,50014	18,28093	3,88972	34,80819,7894	36,45880	
29	21285,98564,09045	21785,24373	1 02345,47789	9,32809,37648,4885	9,33816,24231	17:24
	17,05298,65932	18,28231	3,89313	34,77899,9991	36,43098	
30	21303,03862,74977	21803,52604	1 02349,37102	9,32844,15548,4876	9,33852,67329	18: 0
	17,05233,76655	18,28371	3,89654	34,74984,8815	36,40322	
31	21320,09096,51632	21821,80975	1 02353,26756	9,32878,90533,3691	9,33889,07651	18:36
	17,05168,82184	18,28510	3,89996	34,72074,4251	36,37550	
32	21337,14265,33816	21840,09485	1 02357,16752	9,32913,62607,7942	9,33925,45201	19:12
	17,05103,82519	18,28649	3,90338	34,69168,6189	36,34783	
33	21354,19369,16335	21858,38134	1 02361,07090	9,32948,31776,4131	9,33961,79984	19:48
	17,05038,77659	18,28789	3,90679	34,66267,4512	36,32021	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
100	97814,76007,33806	4 70463,01095	4 80973,43447	9,99040,43939,9775	10,67252,54837	60: 0
	3,63023,33438	403,42527	394,60213	1,61184,2186	37,25702	
99	97811,12984,00368	4 70059,58568	4 80578,83234	9,99038,82755,7589	10,67215,29135	59:24
	3,63321,28411	402,76386	393,94057	1,61322,4995	37,22786	
98	97807,49662,71957	4 69656,82182	4 80184,89177	9,99037,21433,2594	10,67178,06349	58:48
	3,63619,22278	402,10410	393,28065	1,61460,7908	37,19873	
97	97803,86043,49679	4 69254,71772	4 79791,61112	9,99035,59972,4686	10,67140,86476	58:12
	3,63917,15038	401,44600	392,62238	1,61599,0923	37,16967	
96	97800,22126,34641	4 68853,27172	4 79398,98874	9,99033,98373,3763	10,67103,69509	57:36
	3,64215,06689	400,78952	391,96574	1,61737,4042	37,14064	
95	97796,57911,27952	4 68452,48220	4 79007,02300	9,99032,36635,9721	10,67066,55445	57: 0
	3,64512,97230	400,13468	391,31075	1,61875,7263	37,11167	
94	97792,93398,30722	4 68052,34752	4 78615,71225	9,99030,74760,2458	10,67029,44278	56:24
	3,64810,86662	399,48148	390,65737	1,62014,0588	37,08275	
93	97789,28587,44060	4 67652,86604	4 78225,05488	9,99029,12746,1870	10,66992,36003	55:48
	3,65108,74981	398,82988	390,00562	1,62152,4016	37,05388	
92	97785,63478,69079	4 67254,03616	4 77835,04926	9,99027,50593,7854	10,66955,30615	55:12
	3,65406,62189	398,17992	389,35548	1,62290,7546	37,02505	
91	97781,98072,06890	4 66855,85624	4 77445,69378	9,99025,88303,0308	10,66918,28110	54:36
	3,65704,48284	397,53155	388,70696	1,62429,1182	36,99628	
90	97778,32367,58606	4 66458,32469	4 77056,98682	9,99024,25873,9126	10,66881,28482	54: 0
	3,66002,33264	396,88480	388,06005	1,62567,4919	36,96756	
89	97774,66365,25342	4 66061,43989	4 76668,92677	9,99022,63306,4207	10,66844,31726	53:24
	3,66300,17130	396,23965	387,41473	1,62705,8761	36,93888	
88	97771,00065,08212	4 65665,20024	4 76281,51204	9,99021,00600,5446	10,66807,37838	52:48
	3,66597,99880	395,59610	386,77101	1,62844,2706	36,91026	
87	97767,33467,08332	4 65269,60414	4 75894,74103	9,99019,37756,2740	10,66770,46812	52:12
	3,66895,81513	394,95412	386,12888	1,62982,6756	36,88168	
86	97763,66571,26819	4 64874,65002	4 75508,61215	9,99017,74773,5984	10,66733,58644	51:36
	3,67193,62028	394,31375	385,48834	1,63121,0908	36,85315	
85	97759,99377,64791	4 64480,33627	4 75123,12381	9,99016,11652,5076	10,66696,73329	51: 0
	3,67491,41426	393,67495	384,84938	1,63259,5165	36,82467	
84	97756,31886,23365	4 64086,66132	4 74738,27443	9,99014,48392,9911	10,66659,90862	50:24
	3,67789,19703	393,03773	384,21198	1,63397,9527	36,79624	
83	97752,64097,03662	4 63693,62359	4 74354,06245	9,99012,84995,0384	10,66623,11238	49:48
	3,68086,96860	392,40207	383,57617	1,63536,3991	36,76785	
82	97748,96010,06802	4 63301,22152	4 73970,48628	9,99011,21458,6393	10,66586,34453	49:12
	3,68384,72896	391,76798	382,94191	1,63674,8561	36,73953	
81	97745,27625,33906	4 62909,45354	4 73587,54437	9,99009,57783,7832	10,66549,60500	48:36
	3,68682,47810	391,13544	382,30922	1,63813,3235	36,71123	
80	97741,58942,86096	4 62518,31810	4 73205,23515	9,99007,93970,4597	10,66512,89377	48: 0
	3,68980,21601	390,50448	381,67807	1,63951,8013	36,68299	
79	97737,89962,64495	4 62127,81362	4 72823,55708	9,99006,30018,6584	10,66476,21078	47:24
	3,69277,94267	389,87504	381,04849	1,64090,2896	36,65481	
78	97734,20684,70228	4 61737,93858	4 72442,50859	9,99004,65928,3688	10,66439,55597	46:48
	3,69575,65809	389,24716	380,42044	1,64228,7884	36,62666	
77	97730,51109,04419	4 61348,69142	4 72062,08815	9,99003,01699,5804	10,66402,92931	46:12
	3,69873,36226	388,62082	379,79393	1,64367,2976	36,59857	
76	97726,81235,68193	4 60960,07060	4 71682,29422	9,99001,37332,2828	10,66366,33074	45:36
	3,70171,05514	387,99601	379,16895	1,64505,8173	36,57051	
75	97723,11064,62679	4 60572,07459	4 71303,12527	9,98999,72826,4655	10,66329,76023	45: 0
	3,70468,73676	387,37273	378,54551	1,64644,3475	36,54252	
74	97719,40595,89003	4 60184,70186	4 70924,57976	9,98998,08182,1180	10,66293,21771	44:24
	3,70766,40710	386,75098	377,92359	1,64782,8882	36,51456	
73	97715,69829,48293	4 59797,95088	4 70546,65617	9,98996,43399,2298	10,66256,70315	43:48
	3,71064,06613	386,13073	377,30318	1,64921,4395	36,48666	
72	97711,98765,41680	4 59411,82015	4 70169,35299	9,98994,78477,7903	10,66220,21649	43:12
	3,71361,71387	385,51202	376,68430	1,65060,0012	36,45880	
71	97708,27403,70293	4 59026,30813	4 69792,66869	9,98993,13417,7891	10,66183,75769	42:36
	3,71659,35029	384,89480	376,06692	1,65198,5735	36,43098	
70	97704,55744,35264	4 58641,41333	4 69416,60177	9,98991,48219,2156	10,66147,32671	42: 0
	3,71956,97540	384,27909	375,45104	1,65337,1563	36,40322	
69	97700,83787,37724	4 58257,13424	4 69041,15073	9,98989,82882,0593	10,66110,92349	41:24
	3,72254,58916	383,66489	374,83667	1,65475,7496	36,37550	
68	97697,11532,78808	4 57873,46935	4 68666,31406	9,98988,17406,3097	10,66074,54799	40:48
	3,72552,19159	383,05217	374,22378	1,65614,3537	36,34783	
67	97693,38980,59649	4 57490,41718	4 68292,09028	9,98986,51791,9560	10,66038,20016	40:12
	3,72849,78268	382,44094	373,61240	1,65752,9681	36,32021	

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12. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	21354,19369,16335	21858,38134	1 02361,07090	9,32948,31776,4131	9,33961,79984	19:48
	17,05038,77659	18,28789	3,90679	34,66267,4512	36,32021	
34	21371,24407,93994	21876,66923	1 02364,97769	9,32982,98043,8643	9,33998,12005	20:24
	17,04973,67607	18,28929	3,91020	34,63370,9109	36,29262	
35	21388,29381,61601	21894,95852	1 02368,88789	9,33017,61414,7752	9,34034,41267	21: 0
	17,04908,52359	18,29068	3,91363	34,60478,9866	36,26510	
36	21405,34290,13960	21913,24920	1 02372,80152	9,33052,21893,7618	9,34070,67777	21:36
	17,04843,31919	18,29209	3,91704	34,57591,6674	36,23760	
37	21422,39133,45879	21931,54129	1 02376,71856	9,33086,79485,4292	9,34106,91537	22:12
	17,04778,06286	18,29348	3,92046	34,54708,9420	36,21017	
38	21439,43911,52165	21949,83477	1 02380,63902	9,33121,34194,3712	9,34143,12554	22:48
	17,04712,75459	18,29488	3,92388	34,51830,7990	36,18277	
39	21456,48624,27624	21968,12965	1 02384,56290	9,33155,86025,1702	9,34179,30831	23:24
	17,04647,39439	18,29629	3,92730	34,48957,2277	36,15542	
40	21473,53271,67063	21986,42594	1 02388,49020	9,33190,34982,3979	9,34215,46373	24: 0
	17,04581,98228	18,29769	3,93072	34,46088,2169	36,12812	
41	21490,57853,65291	22004,72363	1 02392,42092	9,33224,81070,6148	9,34251,59185	24:36
	17,04516,51822	18,29910	3,93414	34,43223,7555	36,10086	
42	21507,62370,17113	22023,02273	1 02396,35506	9,33259,24294,3703	9,34287,69271	25:12
	17,04451,00226	18,30051	3,93757	34,40363,8327	36,07364	
43	21524,66821,17339	22041,32324	1 02400,29263	9,33293,64658,2030	9,34323,76635	25:48
	17,04385,43437	18,30191	3,94098	34,37508,4372	36,04648	
44	21541,71206,60776	22059,62515	1 02404,23361	9,33328,02166,6402	9,34359,81283	26:24
	17,04319,81457	18,30332	3,94441	34,34657,5584	36,01936	
45	21558,75526,42233	22077,92847	1 02408,17802	9,33362,36824,1986	9,34395,83219	27: 0
	17,04254,14284	18,30473	3,94783	34,31811,1854	35,99229	
46	21575,79780,56517	22096,23320	1 02412,12585	9,33396,68635,3840	9,34431,82448	27:36
	17,04188,41920	18,30615	3,95126	34,28969,3072	35,96525	
47	21592,83968,98437	22114,53935	1 02416,07711	9,33430,97604,6912	9,34467,78973	28:12
	17,04122,64365	18,30755	3,95468	34,26131,9131	35,93827	
48	21609,88091,62802	22132,84690	1 02420,03179	9,33465,23736,6043	9,34503,72800	28:48
	17,04056,81619	18,30898	3,95811	34,23298,9923	35,91132	
49	21626,92148,44421	22151,15588	1 02423,98990	9,33499,47035,5966	9,34539,63932	29:24
	17,03990,93682	18,31038	3,96153	34,20470,5340	35,88443	
50	21643,96139,38103	22169,46626	1 02427,95143	9,33533,67506,1306	9,34575,52375	30: 0
	17,03925,00554	18,31181	3,96496	34,17646,5276	35,85757	
51	21661,00064,38657	22187,77807	1 02431,91639	9,33567,85152,6582	9,34611,38132	30:36
	17,03859,02236	18,31322	3,96839	34,14826,9623	35,83077	
52	21678,03923,40893	22206,09129	1 02435,88478	9,33601,99979,6205	9,34647,21209	31:12
	17,03792,98728	18,31464	3,97181	34,12011,8275	35,80401	
53	21695,07716,39621	22224,40593	1 02439,85659	9,33636,11991,4480	9,34683,01610	31:48
	17,03726,90029	18,31607	3,97525	34,09201,1128	35,77728	
54	21712,11443,29650	22242,72200	1 02443,83184	9,33670,21192,5608	9,34718,79338	32:24
	17,03660,76142	18,31748	3,97867	34,06394,8072	35,75061	
55	21729,15104,05792	22261,03948	1 02447,81051	9,33704,27587,3680	9,34754,54399	33: 0
	17,03594,57063	18,31891	3,98211	34,03592,9006	35,72399	
56	21746,18698,62855	22279,35839	1 02451,79262	9,33738,31180,2686	9,34790,26798	33:36
	17,03528,32796	18,32034	3,98553	34,00795,3822	35,69739	
57	21763,22226,95651	22297,67873	1 02455,77815	9,33772,31975,6508	9,34825,96537	34:12
	17,03462,03339	18,32176	3,98897	33,98002,2417	35,67085	
58	21780,25688,98990	22316,00049	1 02459,76712	9,33806,29977,8925	9,34861,63622	34:48
	17,03395,68693	18,32318	3,99240	33,95213,4686	35,64435	
59	21797,29084,67683	22334,32367	1 02463,75952	9,33840,25191,3611	9,34897,28057	35:24
	17,03329,28860	18,32462	3,99583	33,92429,0524	35,61790	
60	21814,32413,96543	22352,64829	1 02467,75535	9,33874,17620,4135	9,34932,89847	36: 0
	17,03262,83836	18,32605	3,99926	33,89648,9829	35,59149	
61	21831,35676,80379	22370,97434	1 02471,75461	9,33908,07269,3964	9,34968,48996	36:36
	17,03196,33624	18,32747	4,00270	33,86873,2496	35,56511	
62	21848,38873,14003	22389,30181	1 02475,75731	9,33941,94142,6460	9,35004,05507	37:12
	17,03129,78225	18,32891	4,00613	33,84101,8424	35,53880	
63	21865,42002,92228	22407,63072	1 02479,76344	9,33975,78244,4884	9,35039,59387	37:48
	17,03063,17637	18,33034	4,00957	33,81334,7508	35,51251	
64	21882,45066,09865	22425,96106	1 02483,77301	9,34009,59579,2392	9,35075,10638	38:24
	17,02996,51861	18,33178	4,01300	33,78571,9647	35,48627	
65	21899,48062,61726	22444,29284	1 02487,78601	9,34043,38151,2039	9,35110,59265	39: 0
	17,02929,80898	18,33322	4,01644	33,75813,4738	35,46008	
66	21916,50992,42624	22462,62606	1 02491,80245	9,34077,13964,6777	9,35146,05273	39:36
	17,02863,04747	18,33465	4,01988	33,73059,2681	35,43392	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	97693,38980,59649	4 57490,41718	4 68292,09028	9,98986,51791,9560	10,66038,20016	40:12
	3,72849,78268	382,44094	373,61240	1,65752,9681	36,32021	
66	97689,66130,81381	4 57107,97624	4 67918,47788	9,98984,86038,9879	10,66001,87995	39:36
	3,73147,36240	381,83121	373,00249	1,65891,5932	36,29262	
65	97685,92983,45141	4 56726,14503	4 67545,47539	9,98983,20147,3947	10,65965,58733	39: 0
	3,73444,93076	381,22295	372,39407	1,66030,2289	36,26510	
64	97682,19538,52065	4 56344,92208	4 67173,08132	9,98981,54117,1658	10,65929,32223	38:24
	3,73742,48774	380,61616	371,78711	1,66168,8752	36,23760	
63	97678,45796,03291	4 55964,30592	4 66801,29421	9,98979,87948,2906	10,65893,08463	37:48
	3,74040,03334	380,01085	371,18164	1,66307,5320	36,21017	
62	97674,71755,99957	4 55584,29507	4 66430,11257	9,98978,21640,7586	10,65856,87446	37:12
	3,74337,56755	379,40700	370,57762	1,66446,1996	36,18277	
61	97670,97418,43202	4 55204,88807	4 66059,53495	9,98976,55194,5590	10,65820,69169	36:36
	3,74635,09034	378,80462	369,97507	1,66584,8777	36,15542	
60	97667,22783,34168	4 54826,08345	4 65689,55988	9,98974,88609,6813	10,65784,53627	36: 0
	3,74932,60173	378,20369	369,37397	1,66723,5665	36,12812	
59	97663,47850,73995	4 54447,87976	4 65320,18591	9,98973,21886,1148	10,65748,40815	35:24
	3,75230,10170	377,60421	368,77432	1,66862,2659	36,10086	
58	97659,72620,63825	4 54070,27555	4 64951,41159	9,98971,55023,8489	10,65712,30729	34:48
	3,75527,59024	377,00618	368,17613	1,67000,9761	36,07364	
57	97655,97093,04801	4 53693,26937	4 64583,23546	9,98969,88022,8728	10,65676,23365	34:12
	3,75825,06734	376,40959	367,57937	1,67139,6967	36,04648	
56	97652,21267,98067	4 53316,85978	4 64215,65609	9,98968,20883,1761	10,65640,18717	33:36
	3,76122,53298	375,81445	366,98406	1,67278,4282	36,01936	
55	97648,45145,44769	4 52941,04533	4 63848,67203	9,98966,53604,7479	10,65604,16781	33: 0
	3,76419,98718	375,22072	366,39017	1,67417,1703	35,99229	
54	97644,68725,46051	4 52565,82461	4 63482,28186	9,98964,86187,5776	10,65568,17552	32:24
	3,76717,42991	374,62844	365,79771	1,67555,9232	35,96525	
53	97640,92008,03060	4 52191,19617	4 63116,48415	9,98963,18631,6544	10,65532,21027	31:48
	3,77014,86115	374,03758	365,20668	1,67694,6867	35,93827	
52	97637,14993,16945	4 51817,15859	4 62751,27747	9,98961,50936,9677	10,65496,27200	31:12
	3,77312,28092	373,44812	364,61707	1,67833,4609	35,91132	
51	97633,37680,88853	4 51443,71047	4 62386,66040	9,98959,83103,5068	10,65460,36068	30:36
	3,77609,68920	372,86010	364,02887	1,67972,2458	35,88443	
50	97629,60071,19933	4 51070,85037	4 62022,63153	9,98958,15131,2610	10,65424,47625	30: 0
	3,77907,08596	372,27348	363,44208	1,68111,0416	35,85757	
49	97625,82164,11337	4 50698,57689	4 61659,18945	9,98956,47020,2194	10,65388,61868	29:24
	3,78204,47122	371,68827	362,85670	1,68249,8480	35,83077	
48	97622,03959,64215	4 50326,88862	4 61296,33275	9,98954,78770,3714	10,65352,78791	28:48
	3,78501,84496	371,10446	362,27271	1,68388,6653	35,80401	
47	97618,25457,79719	4 49955,78416	4 60934,06004	9,98953,10381,7061	10,65316,98390	28:12
	3,78799,20717	370,52204	361,69014	1,68527,4932	35,77728	
46	97614,46658,59002	4 49585,26212	4 60572,36990	9,98951,41854,2129	10,65281,20662	27:36
	3,79096,55783	369,94102	361,10894	1,68666,3319	35,75061	
45	97610,67562,03219	4 49215,32110	4 60211,26096	9,98949,73187,8810	10,65245,45601	27: 0
	3,79393,89696	369,36138	360,52914	1,68805,1815	35,72399	
44	97606,88168,13523	4 48845,95972	4 59850,73182	9,98948,04382,6995	10,65209,73202	26:24
	3,79691,22452	368,78313	359,95072	1,68944,0418	35,69739	
43	97603,08476,91071	4 48477,17659	4 59490,78110	9,98946,35438,6577	10,65174,03463	25:48
	3,79988,54052	368,20626	359,37367	1,69082,9129	35,67085	
42	97599,28488,37019	4 48108,97033	4 59131,40743	9,98944,66355,7448	10,65138,36378	25:12
	3,80285,84494	367,63077	358,79801	1,69221,7949	35,64435	
41	97595,48202,52525	4 47741,33956	4 58772,60942	9,98942,97133,9499	10,65102,71943	24:36
	3,80583,13778	367,05664	358,22372	1,69360,6876	35,61790	
40	97591,67619,38747	4 47374,28292	4 58414,38570	9,98941,27773,2623	10,65067,10153	24: 0
	3,80880,41902	366,48388	357,65078	1,69499,5912	35,59149	
39	97587,86738,96845	4 47007,79904	4 58056,73492	9,98939,58273,6711	10,65031,51004	23:24
	3,81177,68867	365,91248	357,07922	1,69638,5057	35,56511	
38	97584,05561,27978	4 46641,88656	4 57699,65570	9,98937,88635,1654	10,64995,94493	22:48
	3,81474,94670	365,34244	356,50900	1,69777,4310	35,53880	
37	97580,24086,33308	4 46276,54412	4 57343,14670	9,98936,18857,7344	10,64960,40613	22:12
	3,81772,19310	364,77376	355,94015	1,69916,3671	35,51251	
36	97576,42314,13998	4 45911,77036	4 56987,20655	9,98934,48941,3673	10,64924,89362	21:36
	3,82069,42790	364,20641	355,37264	1,70055,3141	35,48627	
35	97572,60244,71208	4 45547,56395	4 56631,83391	9,98932,78886,0532	10,64889,40735	21: 0
	3,82366,65103	363,64042	354,80647	1,70194,2721	35,46008	
34	97568,77878,06105	4 45183,92353	4 56277,02744	9,98931,08691,7811	10,64853,94727	20:24
	3,82663,86253	363,07577	354,24165	1,70333,2408	35,43392	

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12. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	21933,53855,47371	22480,96071	1 02495,82233	9,34110,87023,9458	9,35181,48665	40:12
	17,02796,23409	18,33609	4,02331	33,70309,3372	35,40782	
68	21950,56651,70780	22499,29680	1 02499,84564	9,34144,57333,2830	9,35216,89447	40:48
	17,02729,36885	18,33753	4,02675	33,67563,6711	35,38175	
69	21967,59381,07665	22517,63433	1 02503,87239	9,34178,24896,9541	9,35252,27622	41:24
	17,02662,45173	18,33897	4,03020	33,64822,2598	35,35572	
70	21984,62043,52838	22535,97330	1 02507,90259	9,34211,89719,2139	9,35287,63194	42: 0
	17,02595,48274	18,34041	4,03363	33,62085,0932	35,32975	
71	22001,64639,01112	22554,31371	1 02511,93622	9,34245,51804,3071	9,35322,96169	42:36
	17,02528,46190	18,34186	4,03707	33,59352,1613	35,30380	
72	22018,67167,47302	22572,65557	1 02515,97329	9,34279,11156,4684	9,35358,26549	43:12
	17,02461,38918	18,34331	4,04051	33,56623,4540	35,27791	
73	22035,69628,86220	22590,99888	1 02520,01380	9,34312,67779,9224	9,35393,54340	43:48
	17,02394,26462	18,34475	4,04396	33,53898,9614	35,25205	
74	22052,72023,12682	22609,34363	1 02524,05776	9,34346,21678,8838	9,35428,79545	44:24
	17,02327,08819	18,34620	4,04740	33,51178,6738	35,22624	
75	22069,74350,21501	22627,68983	1 02528,10516	9,34379,72857,5576	9,35464,02169	45: 0
	17,02259,85991	18,34764	4,05084	33,48462,5809	35,20047	
76	22086,76610,07492	22646,03747	1 02532,15600	9,34413,21320,1385	9,35499,22216	45:36
	17,02192,57977	18,34910	4,05428	33,45750,6732	35,17474	
77	22103,78802,65469	22664,38657	1 02536,21028	9,34446,67070,8117	9,35534,39690	46:12
	17,02125,24778	18,35055	4,05773	33,43042,9406	35,14906	
78	22120,80927,90247	22682,73712	1 02540,26801	9,34480,10113,7523	9,35569,54596	46:48
	17,02057,86395	18,35200	4,06117	33,40339,3735	35,12341	
79	22137,82985,76642	22701,08912	1 02544,32918	9,34513,50453,1258	9,35604,66937	47:24
	17,01990,42825	18,35346	4,06462	33,37639,9620	35,09781	
80	22154,84976,19467	22719,44258	1 02548,39380	9,34546,88093,0878	9,35639,76718	48: 0
	17,01922,94073	18,35491	4,06807	33,34944,6966	35,07224	
81	22171,86899,13540	22737,79749	1 02552,46187	9,34580,23037,7844	9,35674,83942	48:36
	17,01855,40135	18,35637	4,07151	33,32253,5672	35,04673	
82	22188,88754,53675	22756,15386	1 02556,53338	9,34613,55291,3516	9,35709,88615	49:12
	17,01787,81014	18,35783	4,07496	33,29566,5644	35,02125	
83	22205,90542,34689	22774,51169	1 02560,60834	9,34646,84857,9160	9,35744,90740	49:48
	17,01720,16707	18,35929	4,07841	33,26883,6784	34,99581	
84	22222,92262,51396	22792,87098	1 02564,68675	9,34680,11741,5944	9,35779,90321	50:24
	17,01652,47219	18,36074	4,08185	33,24204,8999	34,97041	
85	22239,93914,98615	22811,23172	1 02568,76860	9,34713,35946,4943	9,35814,87362	51: 0
	17,01584,72546	18,36221	4,08531	33,21530,2189	34,94506	
86	22256,95499,71161	22829,59393	1 02572,85391	9,34746,57476,7132	9,35849,81868	51:36
	17,01516,92689	18,36368	4,08876	33,18859,6260	34,91975	
87	22273,97016,63850	22847,95761	1 02576,94267	9,34779,76336,3392	9,35884,73843	52:12
	17,01449,07650	18,36513	4,09220	33,16193,1118	34,89447	
88	22290,98465,71500	22866,32274	1 02581,03487	9,34812,92529,4510	9,35919,63290	52:48
	17,01381,17428	18,36661	4,09566	33,13530,6667	34,86924	
89	22307,99846,88928	22884,68935	1 02585,13053	9,34846,06060,1177	9,35954,50214	53:24
	17,01313,22023	18,36807	4,09912	33,10872,2811	34,84405	
90	22325,01160,10951	22903,05742	1 02589,22965	9,34879,16932,3988	9,35989,34619	54: 0
	17,01245,21436	18,36954	4,10256	33,08217,9458	34,81890	
91	22342,02405,32387	22921,42696	1 02593,33221	9,34912,25150,3446	9,36024,16509	54:36
	17,01177,15666	18,37101	4,10602	33,05567,6512	34,79378	
92	22359,03582,48053	22939,79797	1 02597,43823	9,34945,30717,9958	9,36058,95887	55:12
	17,01109,04714	18,37248	4,10947	33,02921,3881	34,76872	
93	22376,04691,52767	22958,17045	1 02601,54770	9,34978,33639,3839	9,36093,72759	55:48
	17,01040,88581	18,37395	4,11293	33,00279,1470	34,74369	
94	22393,05732,41348	22976,54440	1 02605,66063	9,35011,33918,5309	9,36128,47128	56:24
	17,00972,67265	18,37543	4,11638	32,97640,9186	34,71870	
95	22410,06705,08613	22994,91983	1 02609,77701	9,35044,31559,4495	9,36163,18998	57: 0
	17,00904,40768	18,37690	4,11984	32,95006,6936	34,69374	
96	22427,07609,49381	23013,29673	1 02613,89685	9,35077,26566,1431	9,36197,88372	57:36
	17,00836,09091	18,37838	4,12329	32,92376,4627	34,66884	
97	22444,08445,58472	23031,67511	1 02618,02014	9,35110,18942,6058	9,36232,55256	58:12
	17,00767,72231	18,37985	4,12676	32,89750,2170	34,64397	
98	22461,09213,30703	23050,05496	1 02622,14690	9,35143,08692,8228	9,36267,19653	58:48
	17,00699,30191	18,38134	4,13021	32,87127,9467	34,61914	
99	22478,09912,60894	23068,43630	1 02626,27711	9,35175,95820,7695	9,36301,81567	59:24
	17,00630,82971	18,38281	4,13367	32,84509,6431	34,59435	
100	22495,10543,43865	23086,81911	1 02630,41078	9,35208,80330,4126	9,36336,41002	60: 0
	17,00562,30570	18,38430	4,13713	32,81895,2968	34,56960	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	97564,95214,19852	4 44820,84776	4 55922,78579	9,98929,38358,5403	10,64818,51335	19:48
	3,82961,06237	362,51246	353,67817	1,70472,2206	35,40782	
32	97561,12253,13615	4 44458,33530	4 55569,10762	9,98927,67886,3197	10,64783,10553	19:12
	3,83258,25054	361,95046	353,11600	1,70611,2112	35,38175	
31	97557,28994,88561	4 44096,38484	4 55215,99162	9,98925,97275,1085	10,64747,72378	18:36
	3,83555,42704	361,38982	352,55518	1,70750,2127	35,35572	
30	97553,45439,45857	4 43734,99502	4 54863,43644	9,98924,26524,8958	10,64712,36806	18: 0
	3,83852,59186	360,83047	351,99567	1,70889,2251	35,32975	
29	97549,61586,86671	4 43374,16455	4 54511,44077	9,98922,55635,6707	10,64677,03831	17:24
	3,84149,74498	360,27247	351,43749	1,71028,2486	35,30380	
28	97545,77437,12173	4 43013,89208	4 54160,00328	9,98920,84607,4221	10,64641,73451	16:48
	3,84446,88640	359,71576	350,88062	1,71167,2830	35,27791	
27	97541,92990,23533	4 42654,17632	4 53809,12266	9,98919,13440,1391	10,64606,45660	16:12
	3,84744,01611	359,16038	350,32505	1,71306,3282	35,25205	
26	97538,08246,21922	4 42295,01594	4 53458,79761	9,98917,42133,8109	10,64571,20455	15:36
	3,85041,13409	358,60630	349,77081	1,71445,3845	35,22624	
25	97534,23205,08513	4 41936,40964	4 53109,02680	9,98915,70688,4264	10,64535,97831	15: 0
	3,85338,24036	358,05352	349,21785	1,71584,4518	35,20047	
24	97530,37866,84477	4 41578,35612	4 52759,80895	9,98913,99103,9746	10,64500,77784	14:24
	3,85635,33488	357,50204	348,66621	1,71723,5301	35,17474	
23	97526,52231,50989	4 41220,85408	4 52411,14274	9,98912,27380,4445	10,64465,60310	13:48
	3,85932,41766	356,95186	348,11585	1,71862,6193	35,14906	
22	97522,66299,09223	4 40863,90222	4 52063,02689	9,98910,55517,8252	10,64430,45404	13:12
	3,86229,48867	356,40296	347,56678	1,72001,7195	35,12341	
21	97518,80069,60356	4 40507,49926	4 51715,46011	9,98908,83516,1057	10,64395,33063	12:36
	3,86526,54793	355,85536	347,01900	1,72140,8309	35,09781	
20	97514,93543,05563	4 40151,64390	4 51368,44111	9,98907,11375,2748	10,64360,23282	12: 0
	3,86823,59540	355,30904	346,47251	1,72279,9531	35,07224	
19	97511,06719,46023	4 39796,33486	4 51021,96860	9,98905,39095,3217	10,64325,16058	11:24
	3,87120,63111	354,76399	345,92729	1,72419,0865	35,04673	
18	97507,19598,82912	4 39441,57087	4 50676,04131	9,98903,66676,2352	10,64290,11385	10:48
	3,87417,65501	354,22022	345,38335	1,72558,2309	35,02125	
17	97503,32181,17411	4 39087,35065	4 50330,65796	9,98901,94118,0043	10,64255,09260	10:12
	3,87714,66711	353,67772	344,84067	1,72697,3864	34,99581	
16	97499,44466,50700	4 38733,67293	4 49985,81729	9,98900,21420,6179	10,64220,09679	9:36
	3,88011,66740	353,13649	344,29927	1,72836,5528	34,97041	
15	97495,56454,83960	4 38380,53644	4 49641,51802	9,98898,48584,0651	10,64185,12638	9: 0
	3,88308,65587	352,59652	343,75913	1,72975,7305	34,94506	
14	97491,68146,18373	4 38027,93992	4 49297,75889	9,98896,75608,3346	10,64150,18132	8:24
	3,88605,63252	352,05782	343,22024	1,73114,9191	34,91975	
13	97487,79540,55121	4 37675,88210	4 48954,53865	9,98895,02493,4155	10,64115,26157	7:48
	3,88902,59732	351,52035	342,68261	1,73254,1190	34,89447	
12	97483,90637,95389	4 37324,36175	4 48611,85604	9,98893,29239,2965	10,64080,36710	7:12
	3,89199,55029	350,98415	342,14623	1,73393,3298	34,86924	
11	97480,01438,40360	4 36973,37760	4 48269,70981	9,98891,55845,9667	10,64045,49786	6:36
	3,89496,49138	350,44920	341,61111	1,73532,5518	34,84405	
10	97476,11941,91222	4 36622,92840	4 47928,09870	9,98889,82313,4149	10,64010,65381	6: 0
	3,89793,42063	349,91548	341,07721	1,73671,7849	34,81890	
9	97472,22148,49159	4 36273,01292	4 47587,02149	9,98888,08641,6300	10,63975,83491	5:24
	3,90090,33799	349,38300	340,54457	1,73811,0292	34,79378	
8	97468,32058,15360	4 35923,62992	4 47246,47692	9,98886,34830,6008	10,63941,04113	4:48
	3,90387,24347	348,85177	340,01315	1,73950,2847	34,76872	
7	97464,41670,91013	4 35574,77815	4 46906,46377	9,98884,60880,3161	10,63906,27241	4:12
	3,90684,13707	348,32177	339,48298	1,74089,5511	34,74369	
6	97460,50986,77306	4 35226,45638	4 46566,98079	9,98882,86790,7650	10,63871,52872	3:36
	3,90981,01875	347,79298	338,95402	1,74228,8290	34,71870	
5	97456,60005,75431	4 34878,66340	4 46228,02677	9,98881,12561,9360	10,63836,81002	3: 0
	3,91277,88854	347,26543	338,42629	1,74368,1178	34,69374	
4	97452,68727,86577	4 34531,39797	4 45889,60048	9,98879,38193,8182	10,63802,11628	2:24
	3,91574,74639	346,73910	337,89978	1,74507,4179	34,66884	
3	97448,77153,11938	4 34184,65887	4 45551,70070	9,98877,63686,4003	10,63767,44744	1:48
	3,91871,59233	346,21398	337,37449	1,74646,7292	34,64397	
2	97444,85281,52705	4 33838,44489	4 45214,32621	9,98875,89039,6711	10,63732,80347	1:12
	3,92168,42632	345,69008	336,85041	1,74786,0518	34,61914	
1	97440,93113,10073	4 33492,75481	4 44877,47580	9,98874,14253,6193	10,63698,18433	0:36
	3,92465,24838	345,16738	336,32754	1,74925,3854	34,59435	
0	97437,00647,85235	4 33147,58743	4 44541,14826	9,98872,39328,2339	10,63663,58998	0: 0
	3,92762,05846	344,64590	335,80588	1,75064,7303	34,56960	

GRAD. 77.

13. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
0	22495,10543,43865	23086,81911	1 02630,41078	9,35208,80330,4126	9,36336,41002	0: 0
	17,00562,30570	18,38430	4,13713	32,81895,2968	34,56960	
1	22512,11105,74435	23105,20341	1 02634,54791	9,35241,62225,7094	9,36370,97962	0:36
	17,00493,72989	18,38578	4,14059	32,79284,8989	34,54489	
2	22529,11599,47424	23123,58919	1 02638,68850	9,35274,41510,6083	9,36405,52451	1:12
	17,00425,10227	18,38726	4,14405	32,76678,4400	34,52022	
3	22546,12024,57651	23141,97645	1 02642,83255	9,35307,18189,0483	9,36440,04473	1:48
	17,00356,42287	18,38875	4,14751	32,74075,9113	34,49559	
4	22563,12380,99938	23160,36520	1 02646,98006	9,35339,92264,9596	9,36474,54032	2:24
	17,00287,69166	18,39023	4,15098	32,71477,3036	34,47099	
5	22580,12668,69104	23178,75543	1 02651,13104	9,35372,63742,2632	9,36509,01131	3: 0
	17,00218,90866	18,39173	4,15444	32,68882,6079	34,44645	
6	22597,12887,59970	23197,14716	1 02655,28548	9,35405,32624,8711	9,36543,45776	3:36
	17,00150,07387	18,39321	4,15790	32,66291,8154	34,42192	
7	22614,13037,67357	23215,54037	1 02659,44338	9,35437,98916,6865	9,36577,87968	4:12
	17,00081,18729	18,39470	4,16136	32,63704,9168	34,39746	
8	22631,13118,86086	23233,93507	1 02663,60474	9,35470,62621,6033	9,36612,27714	4:48
	17,00012,24892	18,39620	4,16483	32,61121,9035	34,37302	
9	22648,13131,10978	23252,33127	1 02667,76957	9,35503,23743,5068	9,36646,65016	5:24
	16,99943,25877	18,39769	4,16830	32,58542,7665	34,34862	
10	22665,13074,36855	23270,72896	1 02671,93787	9,35535,82286,2733	9,36680,99878	6: 0
	16,99874,21683	18,39918	4,17176	32,55967,4968	34,32426	
11	22682,12948,58538	23289,12814	1 02676,10963	9,35568,38253,7701	9,36715,32304	6:36
	16,99805,12312	18,40068	4,17523	32,53396,0856	34,29994	
12	22699,12753,70850	23307,52882	1 02680,28486	9,35600,91649,8557	9,36749,62298	7:12
	16,99735,97762	18,40217	4,17870	32,50828,5243	34,27567	
13	22716,12489,68612	23325,93099	1 02684,46356	9,35633,42478,3800	9,36783,89865	7:48
	16,99666,78034	18,40368	4,18217	32,48264,8037	34,25142	
14	22733,12156,46646	23344,33467	1 02688,64573	9,35665,90743,1837	9,36818,15007	8:24
	16,99597,53130	18,40517	4,18563	32,45704,9154	34,22721	
15	22750,11753,99776	23362,73984	1 02692,83136	9,35698,36448,0991	9,36852,37728	9: 0
	16,99528,23048	18,40667	4,18910	32,43148,8505	34,20305	
16	22767,11282,22824	23381,14651	1 02697,02046	9,35730,79596,9496	9,36886,58033	9:36
	16,99458,87788	18,40818	4,19258	32,40596,6003	34,17893	
17	22784,10741,10612	23399,55469	1 02701,21304	9,35763,20193,5499	9,36920,75926	10:12
	16,99389,47353	18,40968	4,19605	32,38048,1561	34,15483	
18	22801,10130,57965	23417,96437	1 02705,40909	9,35795,58241,7060	9,36954,91409	10:48
	16,99320,01740	18,41119	4,19951	32,35503,5092	34,13079	
19	22818,09450,59705	23436,37556	1 02709,60860	9,35827,93745,2152	9,36989,04488	11:24
	16,99250,50951	18,41269	4,20299	32,32962,6510	34,10677	
20	22835,08701,10656	23454,78825	1 02713,81159	9,35860,26707,8662	9,37023,15165	12: 0
	16,99180,94985	18,41420	4,20647	32,30425,5730	34,08279	
21	22852,07882,05641	23473,20245	1 02718,01806	9,35892,57133,4392	9,37057,23444	12:36
	16,99111,33845	18,41571	4,20993	32,27892,2665	34,05886	
22	22869,06993,39486	23491,61816	1 02722,22799	9,35924,85025,7057	9,37091,29330	13:12
	16,99041,67527	18,41722	4,21341	32,25362,7229	34,03496	
23	22886,06035,07013	23510,03538	1 02726,44140	9,35957,10388,4286	9,37125,32826	13:48
	16,98971,96035	18,41873	4,21689	32,22836,9338	34,01110	
24	22903,05007,03048	23528,45411	1 02730,65829	9,35989,33225,3624	9,37159,33936	14:24
	16,98902,19366	18,42024	4,22036	32,20314,8905	33,98727	
25	22920,03909,22414	23546,87435	1 02734,87865	9,36021,53540,2529	9,37193,32663	15: 0
	16,98832,37524	18,42176	4,22384	32,17796,5848	33,96349	
26	22937,02741,59938	23565,29611	1 02739,10249	9,36053,71336,8377	9,37227,29012	15:36
	16,98762,50505	18,42327	4,22732	32,15282,0081	33,93973	
27	22954,01504,10443	23583,71938	1 02743,32981	9,36085,86618,8458	9,37261,22985	16:12
	16,98692,58313	18,42479	4,23079	32,12771,1518	33,91603	
28	22971,00196,68756	23602,14417	1 02747,56060	9,36117,99389,9976	9,37295,14588	16:48
	16,98622,60945	18,42630	4,23427	32,10264,0077	33,89235	
29	22987,98819,29701	23620,57047	1 02751,79487	9,36150,09654,0053	9,37329,03823	17:24
	16,98552,58403	18,42783	4,23775	32,07760,5675	33,86871	
30	23004,97371,88104	23638,99830	1 02756,03262	9,36182,17414,5728	9,37362,90694	18: 0
	16,98482,50688	18,42935	4,24124	32,05260,8226	33,84511	
31	23021,95854,38792	23657,42765	1 02760,27386	9,36214,22675,3954	9,37396,75205	18:36
	16,98412,37799	18,43087	4,24471	32,02764,7648	33,82155	
32	23038,94266,76591	23675,85852	1 02764,51857	9,36246,25440,1602	9,37430,57360	19:12
	16,98342,19735	18,43239	4,24819	32,00272,3858	33,79802	
33	23055,92608,96326	23694,29091	1 02768,76676	9,36278,25712,5460	9,37464,37162	19:48
	16,98271,96498	18,43391	4,25168	31,97783,6774	33,77453	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
100	97437,00647,85235	4 33147,58743	4 44541,14826	9,98872,39328,2339	10,63663,58998	60: 0
	3,92762,05846	344,64590	335,80588	1,75064,7303	34,56960	
99	97433,07885,79389	4 32802,94153	4 44205,34238	9,98870,64263,5036	10,63629,02038	59:24
	3,93058,85660	344,12560	335,28541	1,75204,0865	34,54489	
98	97429,14826,93729	4 32458,81593	4 43870,05697	9,98868,89059,4171	10,63594,47549	58:48
	3,93355,64276	343,60652	334,76615	1,75343,4540	34,52022	
97	97425,21471,29453	4 32115,20941	4 43535,29082	9,98867,13715,9631	10,63559,95527	58:12
	3,93652,41692	343,08863	334,24808	1,75482,8326	34,49559	
96	97421,27818,87761	4 31772,12078	4 43201,04274	9,98865,38233,1305	10,63525,45968	57:36
	3,93949,17912	342,57192	333,73120	1,75622,2225	34,47099	
95	97417,33869,69849	4 31429,54886	4 42867,31154	9,98863,62610,9080	10,63490,98869	57: 0
	3,94245,92929	342,05641	333,21551	1,75761,6237	34,44645	
94	97413,39623,76920	4 31087,49245	4 42534,09603	9,98861,86849,2843	10,63456,54224	56:24
	3,94542,66747	341,54207	332,70100	1,75901,0363	34,42192	
93	97409,45081,10173	4 30745,95038	4 42201,39503	9,98860,10948,2480	10,63422,12032	55:48
	3,94839,39362	341,02892	332,18767	1,76040,4600	34,39746	
92	97405,50241,70811	4 30404,92146	4 41869,20736	9,98858,34907,7880	10,63387,72286	55:12
	3,95136,10775	340,51695	331,67552	1,76179,8951	34,37302	
91	97401,55105,60036	4 30064,40451	4 41537,53184	9,98856,58727,8929	10,63353,34984	54:36
	3,95432,80984	340,00614	331,16453	1,76319,3415	34,34862	
90	97397,59672,79052	4 29724,39837	4 41206,36731	9,98854,82408,5514	10,63319,00122	54: 0
	3,95729,49989	339,49651	330,65473	1,76458,7992	34,32426	
89	97393,63943,29063	4 29384,90186	4 40875,71258	9,98853,05949,7522	10,63284,67696	53:24
	3,96026,17788	338,98804	330,14607	1,76598,2682	34,29994	
88	97389,67917,11275	4 29045,91382	4 40545,56651	9,98851,29351,4840	10,63250,37702	52:48
	3,96322,84380	338,48073	329,63860	1,76737,7487	34,27567	
87	97385,71594,26895	4 28707,43309	4 40215,92791	9,98849,52613,7353	10,63216,10135	52:12
	3,96619,49766	337,97459	329,13227	1,76877,2404	34,25142	
86	97381,74974,77129	4 28369,45850	4 39886,79564	9,98847,75736,4949	10,63181,84993	51:36
	3,96916,13943	337,46959	328,62710	1,77016,7436	34,22721	
85	97377,78058,63186	4 28031,98891	4 39558,16854	9,98845,98719,7513	10,63147,62272	51: 0
	3,97212,76912	336,96575	328,12308	1,77156,2580	34,20305	
84	97373,80845,86274	4 27695,02316	4 39230,04546	9,98844,21563,4933	10,63113,41967	50:24
	3,97509,38669	336,46305	327,62020	1,77295,7839	34,17893	
83	97369,83336,47605	4 27358,56011	4 38902,42526	9,98842,44267,7094	10,63079,24074	49:48
	3,97805,99217	335,96151	327,11848	1,77435,3211	34,15483	
82	97365,85530,48388	4 27022,59860	4 38575,30678	9,98840,66832,3883	10,63045,08591	49:12
	3,98102,58552	335,46110	326,61790	1,77574,8698	34,13079	
81	97361,87427,89836	4 26687,13750	4 38248,68888	9,98838,89257,5185	10,63010,95512	48:36
	3,98399,16676	334,96183	326,11844	1,77714,4299	34,10677	
80	97357,89028,73160	4 26352,17567	4 37922,57044	9,98837,11543,0886	10,62976,84835	48: 0
	3,98695,73584	334,46370	325,62014	1,77854,0014	34,08279	
79	97353,90332,99576	4 26017,71197	4 37596,95030	9,98835,33689,0872	10,62942,76556	47:24
	3,98992,29280	333,96668	325,12294	1,77993,5843	34,05886	
78	97349,91340,70296	4 25683,74529	4 37271,82736	9,98833,55695,5029	10,62908,70670	46:48
	3,99288,83758	333,47081	324,62689	1,78133,1787	34,03496	
77	97345,92051,86538	4 25350,27448	4 36947,20047	9,98831,77562,3242	10,62874,67174	46:12
	3,99585,37022	332,97606	324,13196	1,78272,7845	34,01110	
76	97341,92466,49516	4 25017,29842	4 36623,06851	9,98829,99289,5397	10,62840,66064	45:36
	3,99881,89068	332,48242	323,63814	1,78412,4018	33,98727	
75	97337,92584,60448	4 24684,81600	4 36299,43037	9,98828,20877,1379	10,62806,67337	45: 0
	4,00178,39895	331,98990	323,14545	1,78552,0306	33,96349	
74	97333,92406,20553	4 24352,82610	4 35976,28492	9,98826,42325,1073	10,62772,70988	44:24
	4,00474,89504	331,49851	322,65386	1,78691,6708	33,93973	
73	97329,91931,31049	4 24021,32759	4 35653,63106	9,98824,63633,4365	10,62738,77015	43:48
	4,00771,37893	331,00821	322,16339	1,78831,3225	33,91603	
72	97325,91159,93156	4 23690,31938	4 35331,46767	9,98822,84802,1140	10,62704,85412	43:12
	4,01067,85061	330,51902	321,67403	1,78970,9858	33,89235	
71	97321,90092,08095	4 23359,80036	4 35009,79364	9,98821,05831,1282	10,62670,96177	42:36
	4,01364,31007	330,03094	321,18577	1,79110,6605	33,86871	
70	97317,88727,77088	4 23029,76942	4 34688,60787	9,98819,26720,4677	10,62637,09306	42: 0
	4,01660,75731	329,54396	320,69860	1,79250,3467	33,84511	
69	97313,87067,01357	4 22700,22546	4 34367,90927	9,98817,47470,1210	10,62603,24795	41:24
	4,01957,19230	329,05808	320,21254	1,79390,0446	33,82155	
68	97309,85109,82127	4 22371,16738	4 34047,69673	9,98815,68080,0764	10,62569,42640	40:48
	4,02253,61507	328,57328	319,72757	1,79529,7539	33,79802	
67	97305,82856,20620	4 22042,59410	4 33727,96916	9,98813,88550,3225	10,62535,62838	40:12
	4,02550,02557	328,08959	319,24369	1,79669,4748	33,77453	

GRAD. 76.

13. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	23055,92608,96326	23694,29091	1 02768,76676	9,36278,25712,5460	9,37464,37162	19:48
	16,98271,96498	18,43391	4,25168	31,97783,6774	33,77453	
34	23072,90880,92824	23712,72482	1 02773,01844	9,36310,23496,2234	9,37498,14615	20:24
	16,98201,68088	18,43545	4,25516	31,95298,6312	33,75108	
35	23089,89082,60912	23731,16027	1 02777,27360	9,36342,18794,8546	9,37531,89723	21: 0
	16,98131,34506	18,43697	4,25864	31,92817,2391	33,72766	
36	23106,87213,95418	23749,59724	1 02781,53224	9,36374,11612,0937	9,37565,62489	21:36
	16,98060,95750	18,43850	4,26212	31,90339,4927	33,70429	
37	23123,85274,91168	23768,03574	1 02785,79436	9,36406,01951,5864	9,37599,32918	22:12
	16,97990,51821	18,44002	4,26561	31,87865,3840	33,68093	
38	23140,83265,42989	23786,47576	1 02790,05997	9,36437,89816,9704	9,37633,01011	22:48
	16,97920,02721	18,44156	4,26910	31,85394,9048	33,65764	
39	23157,81185,45710	23804,91732	1 02794,32907	9,36469,75211,8752	9,37666,66775	23:24
	16,97849,48447	18,44309	4,27258	31,82928,0469	33,63436	
40	23174,79034,94157	23823,36041	1 02798,60165	9,36501,58139,9221	9,37700,30211	24: 0
	16,97778,89003	18,44463	4,27607	31,80464,8024	33,61112	
41	23191,76813,83160	23841,80504	1 02802,87772	9,36533,38604,7245	9,37733,91323	24:36
	16,97708,24387	18,44616	4,27956	31,78005,1629	33,58793	
42	23208,74522,07547	23860,25120	1 02807,15728	9,36565,16609,8874	9,37767,50116	25:12
	16,97637,54598	18,44770	4,28304	31,75549,1207	33,56477	
43	23225,72159,62145	23878,69890	1 02811,44032	9,36596,92159,0081	9,37801,06593	25:48
	16,97566,79639	18,44923	4,28654	31,73096,6674	33,54164	
44	23242,69726,41784	23897,14813	1 02815,72686	9,36628,65255,6755	9,37834,60757	26:24
	16,97495,99508	18,45078	4,29002	31,70647,7952	33,51855	
45	23259,67222,41292	23915,59891	1 02820,01688	9,36660,35903,4707	9,37868,12612	27: 0
	16,97425,14208	18,45231	4,29351	31,68202,4962	33,49549	
46	23276,64647,55500	23934,05122	1 02824,31039	9,36692,04105,9669	9,37901,62161	27:36
	16,97354,23735	18,45386	4,29701	31,65760,7623	33,47248	
47	23293,62001,79235	23952,50508	1 02828,60740	9,36723,69866,7292	9,37935,09409	28:12
	16,97283,28093	18,45540	4,30049	31,63322,5854	33,44949	
48	23310,59285,07328	23970,96048	1 02832,90789	9,36755,33189,3146	9,37968,54358	28:48
	16,97212,27280	18,45694	4,30399	31,60887,9579	33,42655	
49	23327,56497,34608	23989,41742	1 02837,21188	9,36786,94077,2725	9,38001,97013	29:24
	16,97141,21297	18,45849	4,30749	31,58456,8718	33,40363	
50	23344,53638,55905	24007,87591	1 02841,51937	9,36818,52534,1443	9,38035,37376	30: 0
	16,97070,10146	18,46003	4,31097	31,56029,3192	33,38076	
51	23361,50708,66051	24026,33594	1 02845,83034	9,36850,08563,4635	9,38068,75452	30:36
	16,96998,93823	18,46159	4,31447	31,53605,2921	33,35792	
52	23378,47707,59874	24044,79753	1 02850,14481	9,36881,62168,7556	9,38102,11244	31:12
	16,96927,72331	18,46313	4,31797	31,51184,7831	33,33511	
53	23395,44635,32205	24063,26066	1 02854,46278	9,36913,13353,5387	9,38135,44755	31:48
	16,96856,45672	18,46469	4,32146	31,48767,7838	33,31234	
54	23412,41491,77877	24081,72535	1 02858,78424	9,36944,62121,3225	9,38168,75989	32:24
	16,96785,13842	18,46623	4,32496	31,46354,2871	33,28961	
55	23429,38276,91719	24100,19158	1 02863,10920	9,36976,08475,6096	9,38202,04950	33: 0
	16,96713,76843	18,46779	4,32846	31,43944,2846	33,26690	
56	23446,34990,68562	24118,65937	1 02867,43766	9,37007,52419,8942	9,38235,31640	33:36
	16,96642,34678	18,46935	4,33195	31,41537,7691	33,24424	
57	23463,31633,03240	24137,12872	1 02871,76961	9,37038,93957,6633	9,38268,56064	34:12
	16,96570,87342	18,47090	4,33545	31,39134,7326	33,22161	
58	23480,28203,90582	24155,59962	1 02876,10506	9,37070,33092,3959	9,38301,78225	34:48
	16,96499,34839	18,47246	4,33896	31,36735,1674	33,19902	
59	23497,24703,25421	24174,07208	1 02880,44402	9,37101,69827,5633	9,38334,98127	35:24
	16,96427,77169	18,47402	4,34245	31,34339,0660	33,17645	
60	23514,21131,02590	24192,54610	1 02884,78647	9,37133,04166,6293	9,38368,15772	36: 0
	16,96356,14330	18,47557	4,34595	31,31946,4207	33,15393	
61	23531,17487,16920	24211,02167	1 02889,13242	9,37164,36113,0500	9,38401,31165	36:36
	16,96284,46325	18,47714	4,34946	31,29557,2238	33,13144	
62	23548,13771,63245	24229,49881	1 02893,48188	9,37195,65670,2738	9,38434,44309	37:12
	16,96212,73152	18,47871	4,35295	31,27171,4678	33,10898	
63	23565,09984,36397	24247,97752	1 02897,83483	9,37226,92841,7416	9,38467,55207	37:48
	16,96140,94811	18,48026	4,35646	31,24789,1450	33,08655	
64	23582,06125,31208	24266,45778	1 02902,19129	9,37258,17630,8866	9,38500,63862	38:24
	16,96069,11305	18,48183	4,35997	31,22410,2481	33,06417	
65	23599,02194,42513	24284,93961	1 02906,55126	9,37289,40041,1347	9,38533,70279	39: 0
	16,95997,22632	18,48340	4,36347	31,20034,7693	33,04182	
66	23615,98191,65145	24303,42301	1 02910,91473	9,37320,60075,9040	9,38566,74461	39:36
	16,95925,28793	18,48497	4,36697	31,17662,7013	33,01949	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	97305,82856,20620	4 22042,59410	4 33727,96916	9,98813,88550,3225	10,62535,62838	40:12
	4,02550,02557	328,08959	319,24369	1,79669,4748	33,77453	
66	97301,80306,18063	4 21714,50451	4 33408,72547	9,98812,08880,8477	10,62501,85385	39:36
	4,02846,42381	327,60697	318,76089	1,79809,2072	33,75108	
65	97297,77459,75682	4 21386,89754	4 33089,96458	9,98810,29071,6405	10,62468,10277	39: 0
	4,03142,80978	327,12544	318,27919	1,79948,9513	33,72766	
64	97293,74316,94704	4 21059,77210	4 32771,68539	9,98808,49122,6892	10,62434,37511	38:24
	4,03439,18347	326,64500	317,79855	1,80088,7068	33,70429	
63	97289,70877,76357	4 20733,12710	4 32453,88684	9,98806,69033,9824	10,62400,67082	37:48
	4,03735,54487	326,16562	317,31901	1,80228,4741	33,68093	
62	97285,67142,21870	4 20406,96148	4 32136,56783	9,98804,88805,5083	10,62366,98989	37:12
	4,04031,89397	325,68733	316,84053	1,80368,2528	33,65764	
61	97281,63110,32473	4 20081,27415	4 31819,72730	9,98803,08437,2555	10,62333,33225	36:36
	4,04328,23076	325,21011	316,36312	1,80508,0433	33,63436	
60	97277,58782,09397	4 19756,06404	4 31503,36418	9,98801,27929,2122	10,62299,69789	36: 0
	4,04624,55525	324,73394	315,88678	1,80647,8453	33,61112	
59	97273,54157,53872	4 19431,33010	4 31187,47740	9,98799,47281,3669	10,62266,08677	35:24
	4,04920,86739	324,25886	315,41151	1,80787,6589	33,58793	
58	97269,49236,67133	4 19107,07124	4 30872,06589	9,98797,66493,7080	10,62232,49884	34:48
	4,05217,16721	323,78482	314,93730	1,80927,4842	33,56477	
57	97265,44019,50412	4 18783,28642	4 30557,12859	9,98795,85566,2238	10,62198,93407	34:12
	4,05513,45468	323,31185	314,46414	1,81067,3212	33,54164	
56	97261,38506,04944	4 18459,97457	4 30242,66445	9,98794,04498,9026	10,62165,39243	33:36
	4,05809,72981	322,83994	313,99204	1,81207,1698	33,51855	
55	97257,32696,31963	4 18137,13463	4 29928,67241	9,98792,23291,7328	10,62131,87388	33: 0
	4,06105,99256	322,36906	313,52100	1,81347,0301	33,49549	
54	97253,26590,32707	4 17814,76557	4 29615,15141	9,98790,41944,7027	10,62098,37839	32:24
	4,06402,24296	321,89926	313,05099	1,81486,9020	33,47248	
53	97249,20188,08411	4 17492,86631	4 29302,10042	9,98788,60457,8007	10,62064,90591	31:48
	4,06698,48096	321,43048	312,58205	1,81626,7857	33,44949	
52	97245,13489,60315	4 17171,43583	4 28989,51837	9,98786,78831,0150	10,62031,45642	31:12
	4,06994,70658	320,96275	312,11413	1,81766,6810	33,42655	
51	97241,06494,89657	4 16850,47308	4 28677,40424	9,98784,97064,3340	10,61998,02987	30:36
	4,07290,91980	320,49607	311,64727	1,81906,5881	33,40363	
50	97236,99203,97677	4 16529,97701	4 28365,75697	9,98783,15157,7459	10,61964,62624	30: 0
	4,07587,12062	320,03042	311,18143	1,82046,5069	33,38076	
49	97232,91616,85615	4 16209,94659	4 28054,57554	9,98781,33111,2390	10,61931,24548	29:24
	4,07883,30902	319,56579	310,71663	1,82186,4374	33,35792	
48	97228,83733,54713	4 15890,38080	4 27743,85891	9,98779,50924,8016	10,61897,88756	28:48
	4,08179,48500	319,10222	310,25286	1,82326,3796	33,33511	
47	97224,75554,06213	4 15571,27858	4 27433,60605	9,98777,68598,4220	10,61864,55245	28:12
	4,08475,64853	318,63965	309,79011	1,82466,3336	33,31234	
46	97220,67078,41360	4 15252,63893	4 27123,81594	9,98775,86132,0884	10,61831,24011	27:36
	4,08771,79963	318,17811	309,32840	1,82606,2994	33,28961	
45	97216,58306,61397	4 14934,46082	4 26814,48754	9,98774,03525,7890	10,61797,95050	27: 0
	4,09067,93828	317,71760	308,86770	1,82746,2770	33,26690	
44	97212,49238,67569	4 14616,74322	4 26505,61984	9,98772,20779,5120	10,61764,68360	26:24
	4,09364,06447	317,25811	308,40802	1,82886,2663	33,24424	
43	97208,39874,61122	4 14299,48511	4 26197,21182	9,98770,37893,2457	10,61731,43936	25:48
	4,09660,17818	316,79963	307,94936	1,83026,2673	33,22161	
42	97204,30214,43304	4 13982,68548	4 25889,26246	9,98768,54866,9784	10,61698,21775	25:12
	4,09956,27941	316,34216	307,49170	1,83166,2803	33,19902	
41	97200,20258,15363	4 13666,34332	4 25581,77076	9,98766,71700,6981	10,61665,01873	24:36
	4,10252,36817	315,88570	307,03507	1,83306,3050	33,17645	
40	97196,10005,78546	4 13350,45762	4 25274,73569	9,98764,88394,3931	10,61631,84228	24: 0
	4,10548,44441	315,43024	306,57942	1,83446,3415	33,15393	
39	97191,99457,34105	4 13035,02738	4 24968,15627	9,98763,04948,0516	10,61598,68835	23:24
	4,10844,50816	314,97580	306,12480	1,83586,3899	33,13144	
38	97187,88612,83289	4 12720,05158	4 24662,03147	9,98761,21361,6617	10,61565,55691	22:48
	4,11140,55940	314,52235	305,67116	1,83726,4502	33,10898	
37	97183,77472,27349	4 12405,52923	4 24356,36031	9,98759,37635,2115	10,61532,44793	22:12
	4,11436,59809	314,06991	305,21853	1,83866,5221	33,08655	
36	97179,66035,67540	4 12091,45932	4 24051,14178	9,98757,53768,6894	10,61499,36138	21:36
	4,11732,62427	313,61844	304,76688	1,84006,6061	33,06417	
35	97175,54303,05113	4 11777,84088	4 23746,37490	9,98755,69762,0833	10,61466,29721	21: 0
	4,12028,63791	313,16798	304,31624	1,84146,7019	33,04182	
34	97171,42274,41322	4 11464,67290	4 23442,05866	9,98753,85615,3814	10,61433,25539	20:24
	4,12324,63898	312,71851	303,86658	1,84286,8096	33,01949	

GRAD. 76.

13. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	23632,94116,93938	24321,90798	1 02915,28170	9,37351,77738,6053	9,38599,76410	40:12
	16,95853,29787	18,48653	4,37048	31,15294,0364	32,99721	
68	23649,89970,23725	24340,39451	1 02919,65218	9,37382,93032,6417	9,38632,76131	40:48
	16,95781,25615	18,48811	4,37399	31,12928,7673	32,97496	
69	23666,85751,49340	24358,88262	1 02924,02617	9,37414,05961,4090	9,38665,73627	41:24
	16,95709,16279	18,48968	4,37749	31,10566,8866	32,95274	
70	23683,81460,65619	24377,37230	1 02928,40366	9,37445,16528,2956	9,38698,68901	42: 0
	16,95637,01776	18,49125	4,38100	31,08208,3867	32,93056	
71	23700,77097,67395	24395,86355	1 02932,78466	9,37476,24736,6823	9,38731,61957	42:36
	16,95564,82108	18,49283	4,38451	31,05853,2604	32,90840	
72	23717,72662,49503	24414,35638	1 02937,16917	9,37507,30589,9427	9,38764,52797	43:12
	16,95492,57276	18,49440	4,38802	31,03501,5001	32,88630	
73	23734,68155,06779	24432,85078	1 02941,55719	9,37538,34091,4428	9,38797,41427	43:48
	16,95420,27278	18,49598	4,39153	31,01153,0987	32,86421	
74	23751,63575,34057	24451,34676	1 02945,94872	9,37569,35244,5415	9,38830,27848	44:24
	16,95347,92116	18,49756	4,39504	30,98808,0487	32,84216	
75	23768,58923,26173	24469,84432	1 02950,34376	9,37600,34052,5902	9,38863,12064	45: 0
	16,95275,51790	18,49914	4,39856	30,96466,3427	32,82014	
76	23785,54198,77963	24488,34346	1 02954,74232	9,37631,30518,9329	9,38895,94078	45:36
	16,95203,06300	18,50072	4,40206	30,94127,9737	32,79817	
77	23802,49401,84263	24506,84418	1 02959,14438	9,37662,24646,9066	9,38928,73895	46:12
	16,95130,55645	18,50231	4,40558	30,91792,9343	32,77622	
78	23819,44532,39908	24525,34649	1 02963,54996	9,37693,16439,8409	9,38961,51517	46:48
	16,95057,99827	18,50388	4,40909	30,89461,2170	32,75430	
79	23836,39590,39735	24543,85037	1 02967,95905	9,37724,05901,0579	9,38994,26947	47:24
	16,94985,38846	18,50548	4,41261	30,87132,8150	32,73242	
80	23853,34575,78581	24562,35585	1 02972,37166	9,37754,93033,8729	9,39027,00189	48: 0
	16,94912,72701	18,50706	4,41612	30,84807,7208	32,71057	
81	23870,29488,51282	24580,86291	1 02976,78778	9,37785,77841,5937	9,39059,71246	48:36
	16,94840,01394	18,50864	4,41964	30,82485,9273	32,68876	
82	23887,24328,52676	24599,37155	1 02981,20742	9,37816,60327,5210	9,39092,40122	49:12
	16,94767,24923	18,51024	4,42315	30,80167,4273	32,66698	
83	23904,19095,77599	24617,88179	1 02985,63057	9,37847,40494,9483	9,39125,06820	49:48
	16,94694,43290	18,51183	4,42667	30,77852,2138	32,64522	
84	23921,13790,20889	24636,39362	1 02990,05724	9,37878,18347,1621	9,39157,71342	50:24
	16,94621,56495	18,51342	4,43019	30,75540,2795	32,62351	
85	23938,08411,77384	24654,90704	1 02994,48743	9,37908,93887,4416	9,39190,33693	51: 0
	16,94548,64538	18,51501	4,43371	30,73231,6173	32,60183	
86	23955,02960,41922	24673,42205	1 02998,92114	9,37939,67119,0589	9,39222,93876	51:36
	16,94475,67418	18,51661	4,43723	30,70926,2203	32,58018	
87	23971,97436,09340	24691,93866	1 03003,35837	9,37970,38045,2792	9,39255,51894	52:12
	16,94402,65137	18,51820	4,44074	30,68624,0812	32,55856	
88	23988,91838,74477	24710,45686	1 03007,79911	9,38001,06669,3604	9,39288,07750	52:48
	16,94329,57695	18,51980	4,44427	30,66325,1932	32,53697	
89	24005,86168,32172	24728,97666	1 03012,24338	9,38031,72994,5536	9,39320,61447	53:24
	16,94256,45092	18,52140	4,44779	30,64029,5491	32,51542	
90	24022,80424,77264	24747,49806	1 03016,69117	9,38062,37024,1027	9,39353,12989	54: 0
	16,94183,27326	18,52300	4,45132	30,61737,1420	32,49390	
91	24039,74608,04590	24766,02106	1 03021,14249	9,38092,98761,2447	9,39385,62379	54:36
	16,94110,04402	18,52460	4,45483	30,59447,9648	32,47242	
92	24056,68718,08992	24784,54566	1 03025,59732	9,38123,58209,2095	9,39418,09621	55:12
	16,94036,76315	18,52621	4,45836	30,57162,0106	32,45096	
93	24073,62754,85307	24803,07187	1 03030,05568	9,38154,15371,2201	9,39450,54717	55:48
	16,93963,43069	18,52781	4,46189	30,54879,2726	32,42953	
94	24090,56718,28376	24821,59968	1 03034,51757	9,38184,70250,4927	9,39482,97670	56:24
	16,93890,04663	18,52941	4,46541	30,52599,7437	32,40815	
95	24107,50608,33039	24840,12909	1 03038,98298	9,38215,22850,2364	9,39515,38485	57: 0
	16,93816,61096	18,53102	4,46893	30,50323,4170	32,38678	
96	24124,44424,94135	24858,66011	1 03043,45191	9,38245,73173,6534	9,39547,77163	57:36
	16,93743,12370	18,53263	4,47247	30,48050,2857	32,36546	
97	24141,38168,06505	24877,19274	1 03047,92438	9,38276,21223,9391	9,39580,13709	58:12
	16,93669,58485	18,53424	4,47599	30,45780,3429	32,34417	
98	24158,31837,64990	24895,72698	1 03052,40037	9,38306,67004,2820	9,39612,48126	58:48
	16,93595,99441	18,53584	4,47952	30,43513,5818	32,32290	
99	24175,25433,64431	24914,26282	1 03056,87989	9,38337,10517,8638	9,39644,80416	59:24
	16,93522,35237	18,53746	4,48304	30,41249,9956	32,30167	
100	24192,18955,99668	24932,80028	1 03061,36293	9,38367,51767,8594	9,39677,10583	60: 0
	16,93448,65874	18,53908	4,48658	30,38989,5773	32,28047	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	97167,29949,77424	4 11151,95439	4 23138,19208	9,98752,01328,5718	10,61400,23590	19:48
	4,12620,62750	312,27002	303,41790	1,84426,9291	32,99721	
32	97163,17329,14674	4 10839,68437	4 22834,77418	9,98750,16901,6427	10,61367,23869	19:12
	4,12916,60345	311,82251	302,97021	1,84567,0606	32,97496	
31	97159,04412,54329	4 10527,86186	4 22531,80397	9,98748,32334,5821	10,61334,26373	18:36
	4,13212,56683	311,37599	302,52350	1,84707,2040	32,95274	
30	97154,91199,97646	4 10216,48587	4 22229,28047	9,98746,47627,3781	10,61301,31099	18: 0
	4,13508,51761	310,93043	302,07777	1,84847,3593	32,93056	
29	97150,77691,45885	4 09905,55544	4 21927,20270	9,98744,62780,0188	10,61268,38043	17:24
	4,13804,45580	310,48587	301,63301	1,84987,5265	32,90840	
28	97146,63887,00305	4 09595,06957	4 21625,56969	9,98742,77792,4923	10,61235,47203	16:48
	4,14100,38138	310,04226	301,18922	1,85127,7057	32,88630	
27	97142,49786,62167	4 09285,02731	4 21324,38047	9,98740,92664,7866	10,61202,58573	16:12
	4,14396,29436	309,59963	300,74640	1,85267,8968	32,86421	
26	97138,35390,32731	4 08975,42768	4 21023,63407	9,98739,07396,8898	10,61169,72152	15:36
	4,14692,19470	309,15796	300,30455	1,85408,0999	32,84216	
25	97134,20698,13261	4 08666,26972	4 20723,32952	9,98737,21988,7899	10,61136,87936	15: 0
	4,14988,08241	308,71726	299,86365	1,85548,3149	32,82014	
24	97130,05710,05020	4 08357,55246	4 20423,46587	9,98735,36440,4750	10,61104,05922	14:24
	4,15283,95749	308,27752	299,42373	1,85688,5420	32,79817	
23	97125,90426,09271	4 08049,27494	4 20124,04214	9,98733,50751,9330	10,61071,26105	13:48
	4,15579,81991	307,83872	298,98476	1,85828,7810	32,77622	
22	97121,74846,27280	4 07741,43622	4 19825,05738	9,98731,64923,1520	10,61038,48483	13:12
	4,15875,66967	307,40090	298,54673	1,85969,0321	32,75430	
21	97117,58970,60313	4 07434,03532	4 19526,51065	9,98729,78954,1199	10,61005,73053	12:36
	4,16171,50677	306,96402	298,10967	1,86109,2951	32,73242	
20	97113,42799,09636	4 07127,07130	4 19228,40098	9,98727,92844,8248	10,60972,99811	12: 0
	4,16467,33119	306,52809	297,67356	1,86249,5701	32,71057	
19	97109,26331,76517	4 06820,54321	4 18930,72742	9,98726,06595,2547	10,60940,28754	11:24
	4,16763,14291	306,09311	297,23838	1,86389,8573	32,68876	
18	97105,09568,62226	4 06514,45010	4 18633,48904	9,98724,20205,3974	10,60907,59878	10:48
	4,17058,94196	305,65906	296,80416	1,86530,1564	32,66698	
17	97100,92509,68030	4 06208,79104	4 18336,68488	9,98722,33675,2410	10,60874,93180	10:12
	4,17354,72828	305,22597	296,37087	1,86670,4676	32,64522	
16	97096,75154,95202	4 05903,56507	4 18040,31401	9,98720,47004,7734	10,60842,28658	9:36
	4,17650,50191	304,79381	295,93853	1,86810,7908	32,62351	
15	97092,57504,45011	4 05598,77126	4 17744,37548	9,98718,60193,9826	10,60809,66307	9: 0
	4,17946,26280	304,36259	295,50711	1,86951,1262	32,60183	
14	97088,39558,18731	4 05294,40867	4 17448,86837	9,98716,73242,8564	10,60777,06124	8:24
	4,18242,01097	303,93229	295,07664	1,87091,4736	32,58018	
13	97084,21316,17634	4 04990,47638	4 17153,79173	9,98714,86151,3828	10,60744,48106	7:48
	4,18537,74639	303,50294	294,64708	1,87231,8330	32,55856	
12	97080,02778,42995	4 04686,97344	4 16859,14465	9,98712,98919,5498	10,60711,92250	7:12
	4,18833,46906	303,07450	294,21847	1,87372,2047	32,53697	
11	97075,83944,96089	4 04383,89894	4 16564,92618	9,98711,11547,3451	10,60679,38553	6:36
	4,19129,17898	302,64699	293,79077	1,87512,5884	32,51542	
10	97071,64815,78191	4 04081,25195	4 16271,13541	9,98709,24034,7567	10,60646,87011	6: 0
	4,19424,87613	302,22041	293,36399	1,87652,9843	32,49390	
9	97067,45390,90578	4 03779,03154	4 15977,77142	9,98707,36381,7724	10,60614,37621	5:24
	4,19720,56051	301,79474	292,93814	1,87793,3922	32,47242	
8	97063,25670,34527	4 03477,23680	4 15684,83328	9,98705,48588,3802	10,60581,90379	4:48
	4,20016,23209	301,36999	292,51321	1,87933,8123	32,45096	
7	97059,05654,11318	4 03175,86681	4 15392,32007	9,98703,60654,5679	10,60549,45283	4:12
	4,20311,89088	300,94616	292,08917	1,88074,2446	32,42953	
6	97054,85342,22230	4 02874,92065	4 15100,23090	9,98701,72580,3233	10,60517,02330	3:36
	4,20607,53688	300,52323	291,66607	1,88214,6891	32,40815	
5	97050,64734,68542	4 02574,39742	4 14808,56483	9,98699,84365,6342	10,60484,61515	3: 0
	4,20903,17005	300,10123	291,24387	1,88355,1456	32,38678	
4	97046,43831,51537	4 02274,29619	4 14517,32096	9,98697,96010,4886	10,60452,22837	2:24
	4,21198,79040	299,68011	290,82256	1,88495,6144	32,36546	
3	97042,22632,72497	4 01974,61608	4 14226,49840	9,98696,07514,8742	10,60419,86291	1:48
	4,21494,39793	299,25991	290,40218	1,88636,0955	32,34417	
2	97038,01138,32704	4 01675,35617	4 13936,09622	9,98694,18878,7787	10,60387,51874	1:12
	4,21789,99262	298,84061	289,98268	1,88776,5886	32,32290	
1	97033,79348,33442	4 01376,51556	4 13646,11354	9,98692,30102,1901	10,60355,19584	0:36
	4,22085,57446	298,42221	289,56410	1,88917,0940	32,30167	
0	97029,57262,75996	4 01078,09335	4 13356,54944	9,98690,41185,0961	10,60322,89417	0: 0
	4,22381,14343	298,00470	289,14639	1,89057,6116	32,28047	

GRAD. 76.

14. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
0	24192,18955,99668	24932,80028	1 03061,36293	9,38367,51767,8594	9,39677,10583	0: 0
	16,93448,65874	18,53908	4,48658	30,38989,5773	32,28047	
1	24209,12404,65542	24951,33936	1 03065,84951	9,38397,90757,4367	9,39709,38630	0:36
	16,93374,91354	18,54069	4,49011	30,36732,3203	32,25930	
2	24226,05779,56896	24969,88005	1 03070,33962	9,38428,27489,7570	9,39741,64560	1:12
	16,93301,11674	18,54230	4,49364	30,34478,2178	32,23817	
3	24242,99080,68570	24988,42235	1 03074,83326	9,38458,61967,9748	9,39773,88377	1:48
	16,93227,26837	18,54392	4,49717	30,32227,2632	32,21707	
4	24259,92307,95407	25006,96627	1 03079,33043	9,38488,94195,2380	9,39806,10084	2:24
	16,93153,36842	18,54554	4,50071	30,29979,4494	32,19599	
5	24276,85461,32249	25025,51181	1 03083,83114	9,38519,24174,6874	9,39838,29683	3: 0
	16,93079,41690	18,54717	4,50423	30,27734,7700	32,17495	
6	24293,78540,73939	25044,05898	1 03088,33537	9,38549,51909,4574	9,39870,47178	3:36
	16,93005,41379	18,54878	4,50777	30,25493,2182	32,15394	
7	24310,71546,15318	25062,60776	1 03092,84314	9,38579,77402,6756	9,39902,62572	4:12
	16,92931,35911	18,55040	4,51131	30,23254,7875	32,13297	
8	24327,64477,51229	25081,15816	1 03097,35445	9,38610,00657,4631	9,39934,75869	4:48
	16,92857,25287	18,55203	4,51484	30,21019,4709	32,11201	
9	24344,57334,76516	25099,71019	1 03101,86929	9,38640,21676,9340	9,39966,87070	5:24
	16,92783,09507	18,55366	4,51838	30,18787,2622	32,09111	
10	24361,50117,86023	25118,26385	1 03106,38767	9,38670,40464,1962	9,39998,96181	6: 0
	16,92708,88568	18,55528	4,52192	30,16558,1544	32,07021	
11	24378,42826,74591	25136,81913	1 03110,90959	9,38700,57022,3506	9,40031,03202	6:36
	16,92634,62475	18,55691	4,52545	30,14332,1411	32,04936	
12	24395,35461,37066	25155,37604	1 03115,43504	9,38730,71354,4917	9,40063,08138	7:12
	16,92560,31224	18,55854	4,52899	30,12109,2158	32,02854	
13	24412,28021,68290	25173,93458	1 03119,96403	9,38760,83463,7075	9,40095,10992	7:48
	16,92485,94819	18,56017	4,53253	30,09889,3717	32,00775	
14	24429,20507,63109	25192,49475	1 03124,49656	9,38790,93353,0792	9,40127,11767	8:24
	16,92411,53258	18,56180	4,53608	30,07672,6025	31,98699	
15	24446,12919,16367	25211,05655	1 03129,03264	9,38821,01025,6817	9,40159,10466	9: 0
	16,92337,06540	18,56344	4,53961	30,05458,9016	31,96626	
16	24463,05256,22907	25229,61999	1 03133,57225	9,38851,06484,5833	9,40191,07092	9:36
	16,92262,54669	18,56507	4,54315	30,03248,2625	31,94556	
17	24479,97518,77576	25248,18506	1 03138,11540	9,38881,09732,8458	9,40223,01648	10:12
	16,92187,97642	18,56671	4,54670	30,01040,6786	31,92489	
18	24496,89706,75218	25266,75177	1 03142,66210	9,38911,10773,5244	9,40254,94137	10:48
	16,92113,35460	18,56834	4,55024	29,98836,1436	31,90425	
19	24513,81820,10678	25285,32011	1 03147,21234	9,38941,09609,6680	9,40286,84562	11:24
	16,92038,68125	18,56999	4,55378	29,96634,6510	31,88364	
20	24530,73858,78803	25303,89010	1 03151,76612	9,38971,06244,3190	9,40318,72926	12: 0
	16,91963,95634	18,57162	4,55733	29,94436,1944	31,86307	
21	24547,65822,74437	25322,46172	1 03156,32345	9,39001,00680,5134	9,40350,59233	12:36
	16,91889,17989	18,57327	4,56087	29,92240,7673	31,84252	
22	24564,57711,92426	25341,03499	1 03160,88432	9,39030,92921,2807	9,40382,43485	13:12
	16,91814,35192	18,57491	4,56442	29,90048,3634	31,82200	
23	24581,49526,27618	25359,60990	1 03165,44874	9,39060,82969,6441	9,40414,25685	13:48
	16,91739,47240	18,57655	4,56797	29,87858,9762	31,80152	
24	24598,41265,74858	25378,18645	1 03170,01671	9,39090,70828,6203	9,40446,05837	14:24
	16,91664,54135	18,57820	4,57151	29,85672,5996	31,78107	
25	24615,32930,28993	25396,76465	1 03174,58822	9,39120,56501,2199	9,40477,83944	15: 0
	16,91589,55877	18,57984	4,57506	29,83489,2271	31,76063	
26	24632,24519,84870	25415,34449	1 03179,16328	9,39150,39990,4470	9,40509,60007	15:36
	16,91514,52466	18,58150	4,57861	29,81308,8522	31,74025	
27	24649,16034,37336	25433,92599	1 03183,74189	9,39180,21299,2992	9,40541,34032	16:12
	16,91439,43902	18,58314	4,58216	29,79131,4689	31,71987	
28	24666,07473,81238	25452,50913	1 03188,32405	9,39210,00430,7681	9,40573,06019	16:48
	16,91364,30187	18,58480	4,58572	29,76957,0708	31,69955	
29	24682,98838,11425	25471,09393	1 03192,90977	9,39239,77387,8389	9,40604,75974	17:24
	16,91289,11318	18,58645	4,58926	29,74785,6516	31,67923	
30	24699,90127,22743	25489,68038	1 03197,49903	9,39269,52173,4905	9,40636,43897	18: 0
	16,91213,87298	18,58810	4,59281	29,72617,2051	31,65896	
31	24716,81341,10041	25508,26848	1 03202,09184	9,39299,24790,6956	9,40668,09793	18:36
	16,91138,58126	18,58975	4,59637	29,70451,7250	31,63872	
32	24733,72479,68167	25526,85823	1 03206,68821	9,39328,95242,4206	9,40699,73665	19:12
	16,91063,23803	18,59142	4,59992	29,68289,2051	31,61850	
33	24750,63542,91970	25545,44965	1 03211,28813	9,39358,63531,6257	9,40731,35515	19:48
	16,90987,84328	18,59307	4,60348	29,66129,6394	31,59831	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
100	97029,57262,75996	4 01078,09335	4 13356,54944	9,98690,41185,0961	10,60322,89417	60: 0
	4,22381,14343	298,00470	289,14639	1,89057,6116	32,28047	
99	97025,34881,61653	4 00780,08865	4 13067,40305	9,98688,52127,4845	10,60290,61370	59:24
	4,22676,69955	297,58808	288,72959	1,89198,1416	32,25930	
98	97021,12204,91698	4 00482,50057	4 12778,67346	9,98686,62929,3429	10,60258,35440	58:48
	4,22972,24278	297,17237	288,31368	1,89338,6836	32,23817	
97	97016,89232,67420	4 00185,32820	4 12490,35978	9,98684,73590,6593	10,60226,11623	58:12
	4,23267,77314	296,75753	287,89866	1,89479,2380	32,21707	
96	97012,65964,90106	3 99888,57067	4 12202,46112	9,98682,84111,4213	10,60193,89916	57:36
	4,23563,29060	296,34358	287,48452	1,89619,8046	32,19599	
95	97008,42401,61046	3 99592,22709	4 11914,97660	9,98680,94491,6167	10,60161,70317	57: 0
	4,23858,79516	295,93052	287,07126	1,89760,3835	32,17495	
94	97004,18542,81530	3 99296,29657	4 11627,90534	9,98679,04731,2332	10,60129,52822	56:24
	4,24154,28680	295,51834	286,65889	1,89900,9747	32,15394	
93	96999,94388,52850	3 99000,77823	4 11341,24645	9,98677,14830,2585	10,60097,37428	55:48
	4,24449,76553	295,10703	286,24740	1,90041,5782	32,13297	
92	96995,69938,76297	3 98705,67120	4 11054,99905	9,98675,24788,6803	10,60065,24131	55:12
	4,24745,23132	294,69661	285,83677	1,90182,1939	32,11201	
91	96991,45193,53165	3 98410,97459	4 10769,16228	9,98673,34606,4864	10,60033,12930	54:36
	4,25040,68418	294,28705	285,42703	1,90322,8221	32,09111	
90	96987,20152,84747	3 98116,68754	4 10483,73525	9,98671,44283,6643	10,60001,03819	54: 0
	4,25336,12409	293,87836	285,01816	1,90463,4625	32,07021	
89	96982,94816,72338	3 97822,80918	4 10198,71709	9,98669,53820,2018	10,59968,96798	53:24
	4,25631,55105	293,47055	284,61015	1,90604,1153	32,04936	
88	96978,69185,17233	3 97529,33863	4 09914,10694	9,98667,63216,0865	10,59936,91862	52:48
	4,25926,96503	293,06360	284,20301	1,90744,7804	32,02854	
87	96974,43258,20730	3 97236,27503	4 09629,90393	9,98665,72471,3061	10,59904,89008	52:12
	4,26222,36605	292,65752	283,79673	1,90885,4579	32,00775	
86	96970,17035,84125	3 96943,61751	4 09346,10720	9,98663,81585,8482	10,59872,88233	51:36
	4,26517,75408	292,25229	283,39132	1,91026,1477	31,98699	
85	96965,90518,08717	3 96651,36522	4 09062,71588	9,98661,90559,7005	10,59840,89534	51: 0
	4,26813,12911	291,84793	282,98675	1,91166,8499	31,96626	
84	96961,63704,95806	3 96359,51729	4 08779,72913	9,98659,99392,8506	10,59808,92908	50:24
	4,27108,49115	291,44442	282,58306	1,91307,5645	31,94556	
83	96957,36596,46691	3 96068,07287	4 08497,14607	9,98658,08085,2861	10,59776,98352	49:48
	4,27403,84018	291,04177	282,18021	1,91448,2916	31,92489	
82	96953,09192,62673	3 95777,03110	4 08214,96586	9,98656,16636,9945	10,59745,05863	49:12
	4,27699,17618	290,63996	281,77822	1,91589,0309	31,90425	
81	96948,81493,45055	3 95486,39114	4 07933,18764	9,98654,25047,9636	10,59713,15438	48:36
	4,27994,49916	290,23901	281,37707	1,91729,7828	31,88364	
80	96944,53498,95139	3 95196,15213	4 07651,81057	9,98652,33318,1808	10,59681,27074	48: 0
	4,28289,80910	289,83890	280,97677	1,91870,5470	31,86307	
79	96940,25209,14229	3 94906,31323	4 07370,83380	9,98650,41447,6338	10,59649,40767	47:24
	4,28585,10600	289,43963	280,57731	1,92011,3237	31,84252	
78	96935,96624,03629	3 94616,87360	4 07090,25649	9,98648,49436,3101	10,59617,56515	46:48
	4,28880,38983	289,04122	280,17870	1,92152,1129	31,82200	
77	96931,67743,64646	3 94327,83238	4 06810,07779	9,98646,57284,1972	10,59585,74315	46:12
	4,29175,66061	288,64363	279,78093	1,92292,9144	31,80152	
76	96927,38567,98585	3 94039,18875	4 06530,29686	9,98644,64991,2828	10,59553,94163	45:36
	4,29470,91831	288,24690	279,38399	1,92433,7285	31,78107	
75	96923,09097,06754	3 93750,94185	4 06250,91287	9,98642,72557,5543	10,59522,16056	45: 0
	4,29766,16292	287,85098	278,98788	1,92574,5551	31,76063	
74	96918,79330,90462	3 93463,09087	4 05971,92499	9,98640,79982,9992	10,59490,39993	44:24
	4,30061,39446	287,45590	278,59262	1,92715,3941	31,74025	
73	96914,49269,51016	3 93175,63497	4 05693,33237	9,98638,87267,6051	10,59458,65968	43:48
	4,30356,61287	287,06166	278,19818	1,92856,2457	31,71987	
72	96910,18912,89729	3 92888,57331	4 05415,13419	9,98636,94411,3594	10,59426,93981	43:12
	4,30651,81820	286,66825	277,80456	1,92997,1097	31,69955	
71	96905,88261,07909	3 92601,90506	4 05137,32963	9,98635,01414,2497	10,59395,24026	42:36
	4,30947,01039	286,27565	277,41178	1,93137,9862	31,67923	
70	96901,57314,06870	3 92315,62941	4 04859,91785	9,98633,08276,2635	10,59363,56103	42: 0
	4,31242,18947	285,88388	277,01982	1,93278,8754	31,65896	
69	96897,26071,87923	3 92029,74553	4 04582,89803	9,98631,14997,3881	10,59331,90207	41:24
	4,31537,35540	285,49293	276,62867	1,93419,7770	31,63872	
68	96892,94534,52383	3 91744,25260	4 04306,26936	9,98629,21577,6111	10,59300,26335	40:48
	4,31832,50819	285,10280	276,23835	1,93560,6912	31,61850	
67	96888,62702,01564	3 91459,14980	4 04030,03101	9,98627,28016,9199	10,59268,64485	40:12
	4,32127,64782	284,71350	275,84884	1,93701,6180	31,59831	

GRAD. 75.

14. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	24750,63542,91970	25545,44965	1 03211,28813	9,39358,63531,6257	9,40731,35515	19:48
	16,90987,84328	18,59307	4,60348	29,66129,6394	31,59831	
34	24767,54530,76298	25564,04272	1 03215,89161	9,39388,29661,2651	9,40762,95346	20:24
	16,90912,39702	18,59473	4,60703	29,63973,0214	31,57816	
35	24784,45443,16000	25582,63745	1 03220,49864	9,39417,93634,2865	9,40794,53162	21: 0
	16,90836,89926	18,59639	4,61058	29,61819,3451	31,55802	
36	24801,36280,05926	25601,23384	1 03225,10922	9,39447,55453,6316	9,40826,08964	21:36
	16,90761,34998	18,59805	4,61415	29,59668,6044	31,53793	
37	24818,27041,40924	25619,83189	1 03229,72337	9,39477,15122,2360	9,40857,62757	22:12
	16,90685,74921	18,59972	4,61770	29,57520,7930	31,51787	
38	24835,17727,15845	25638,43161	1 03234,34107	9,39506,72643,0290	9,40889,14544	22:48
	16,90610,09694	18,60138	4,62125	29,55375,9051	31,49782	
39	24852,08337,25539	25657,03299	1 03238,96232	9,39536,28018,9341	9,40920,64326	23:24
	16,90534,39316	18,60305	4,62482	29,53233,9343	31,47781	
40	24868,98871,64855	25675,63604	1 03243,58714	9,39565,81252,8684	9,40952,12107	24: 0
	16,90458,63789	18,60471	4,62838	29,51094,8746	31,45784	
41	24885,89330,28644	25694,24075	1 03248,21552	9,39595,32347,7430	9,40983,57891	24:36
	16,90382,83112	18,60638	4,63194	29,48958,7200	31,43788	
42	24902,79713,11756	25712,84713	1 03252,84746	9,39624,81306,4630	9,41015,01679	25:12
	16,90306,97286	18,60806	4,63549	29,46825,4644	31,41796	
43	24919,70020,09042	25731,45519	1 03257,48295	9,39654,28131,9274	9,41046,43475	25:48
	16,90231,06312	18,60972	4,63906	29,44695,1019	31,39807	
44	24936,60251,15354	25750,06491	1 03262,12201	9,39683,72827,0293	9,41077,83282	26:24
	16,90155,10188	18,61140	4,64263	29,42567,6263	31,37820	
45	24953,50406,25542	25768,67631	1 03266,76464	9,39713,15394,6556	9,41109,21102	27: 0
	16,90079,08917	18,61307	4,64618	29,40443,0317	31,35837	
46	24970,40485,34459	25787,28938	1 03271,41082	9,39742,55837,6873	9,41140,56939	27:36
	16,90003,02496	18,61475	4,64975	29,38321,3122	31,33856	
47	24987,30488,36955	25805,90413	1 03276,06057	9,39771,94158,9995	9,41171,90795	28:12
	16,89926,90927	18,61642	4,65332	29,36202,4617	31,31878	
48	25004,20415,27882	25824,52055	1 03280,71389	9,39801,30361,4612	9,41203,22673	28:48
	16,89850,74212	18,61810	4,65688	29,34086,4742	31,29904	
49	25021,10266,02094	25843,13865	1 03285,37077	9,39830,64447,9354	9,41234,52577	29:24
	16,89774,52347	18,61979	4,66045	29,31973,3441	31,27931	
50	25038,00040,54441	25861,75844	1 03290,03122	9,39859,96421,2795	9,41265,80508	30: 0
	16,89698,25337	18,62146	4,66401	29,29863,0651	31,25963	
51	25054,89738,79778	25880,37990	1 03294,69523	9,39889,26284,3446	9,41297,06471	30:36
	16,89621,93179	18,62314	4,66759	29,27755,6316	31,23996	
52	25071,79360,72957	25899,00304	1 03299,36282	9,39918,54039,9762	9,41328,30467	31:12
	16,89545,55873	18,62483	4,67115	29,25651,0375	31,22032	
53	25088,68906,28830	25917,62787	1 03304,03397	9,39947,79691,0137	9,41359,52499	31:48
	16,89469,13422	18,62652	4,67472	29,23549,2771	31,20072	
54	25105,58375,42252	25936,25439	1 03308,70869	9,39977,03240,2908	9,41390,72571	32:24
	16,89392,65824	18,62820	4,67829	29,21450,3445	31,18115	
55	25122,47768,08076	25954,88259	1 03313,38698	9,40006,24690,6353	9,41421,90686	33: 0
	16,89316,13079	18,62988	4,68187	29,19354,2338	31,16159	
56	25139,37084,21155	25973,51247	1 03318,06885	9,40035,44044,8691	9,41453,06845	33:36
	16,89239,55189	18,63158	4,68543	29,17260,9392	31,14208	
57	25156,26323,76344	25992,14405	1 03322,75428	9,40064,61305,8083	9,41484,21053	34:12
	16,89162,92153	18,63327	4,68901	29,15170,4551	31,12258	
58	25173,15486,68497	26010,77732	1 03327,44329	9,40093,76476,2634	9,41515,33311	34:48
	16,89086,23972	18,63496	4,69258	29,13082,7755	31,10311	
59	25190,04572,92469	26029,41228	1 03332,13587	9,40122,89559,0389	9,41546,43622	35:24
	16,89009,50645	18,63665	4,69616	29,10997,8947	31,08368	
60	25206,93582,43114	26048,04893	1 03336,83203	9,40152,00556,9336	9,41577,51990	36: 0
	16,88932,72173	18,63835	4,69973	29,08915,8068	31,06428	
61	25223,82515,15287	26066,68728	1 03341,53176	9,40181,09472,7404	9,41608,58418	36:36
	16,88855,88556	18,64004	4,70330	29,06836,5064	31,04489	
62	25240,71371,03843	26085,32732	1 03346,23506	9,40210,16309,2468	9,41639,62907	37:12
	16,88778,99796	18,64174	4,70688	29,04759,9876	31,02554	
63	25257,60150,03639	26103,96906	1 03350,94194	9,40239,21069,2344	9,41670,65461	37:48
	16,88702,05890	18,64344	4,71046	29,02686,2445	31,00621	
64	25274,48852,09529	26122,61250	1 03355,65240	9,40268,23755,4789	9,41701,66082	38:24
	16,88625,06841	18,64514	4,71404	29,00615,2717	30,98692	
65	25291,37477,16370	26141,25764	1 03360,36644	9,40297,24370,7506	9,41732,64774	39: 0
	16,88548,02648	18,64684	4,71762	28,98547,0635	30,96765	
66	25308,26025,19018	26159,90448	1 03365,08406	9,40326,22917,8141	9,41763,61539	39:36
	16,88470,93310	18,64855	4,72120	28,96481,6140	30,94841	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	96888,62702,01564	3 91459,14980	4 04030,03101	9,98627,28016,9199	10,59268,64485	40:12
	4,32127,64782	284,71350	275,84884	1,93701,6180	31,59831	
66	96884,30574,36782	3 91174,43630	4 03754,18217	9,98625,34315,3019	10,59237,04654	39:36
	4,32422,77430	284,32499	275,46015	1,93842,5572	31,57816	
65	96879,98151,59352	3 90890,11131	4 03478,72202	9,98623,40472,7447	10,59205,46838	39: 0
	4,32717,88760	283,93730	275,07227	1,93983,5092	31,55802	
64	96875,65433,70592	3 90606,17401	4 03203,64975	9,98621,46489,2355	10,59173,91036	38:24
	4,33012,98771	283,55043	274,68519	1,94124,4737	31,53793	
63	96871,32420,71821	3 90322,62358	4 02928,96456	9,98619,52364,7618	10,59142,37243	37:48
	4,33308,07464	283,16436	274,29894	1,94265,4508	31,51787	
62	96866,99112,64357	3 90039,45922	4 02654,66562	9,98617,58099,3110	10,59110,85456	37:12
	4,33603,14837	282,77909	273,91347	1,94406,4405	31,49782	
61	96862,65509,49520	3 89756,68013	4 02380,75215	9,98615,63692,8705	10,59079,35674	36:36
	4,33898,20889	282,39464	273,52881	1,94547,4428	31,47781	
60	96858,31611,28631	3 89474,28549	4 02107,22334	9,98613,69145,4277	10,59047,87893	36: 0
	4,34193,25619	282,01097	273,14496	1,94688,4578	31,45784	
59	96853,97418,03012	3 89192,27452	4 01834,07838	9,98611,74456,9699	10,59016,42109	35:24
	4,34488,29027	281,62811	272,76190	1,94829,4854	31,43788	
58	96849,62929,73985	3 88910,64641	4 01561,31648	9,98609,79627,4845	10,58984,98321	34:48
	4,34783,31111	281,24604	272,37964	1,94970,5257	31,41796	
57	96845,28146,42874	3 88629,40037	4 01288,93684	9,98607,84656,9588	10,58953,56525	34:12
	4,35078,31870	280,86477	271,99817	1,95111,5787	31,39807	
56	96840,93068,11004	3 88348,53560	4 01016,93867	9,98605,89545,3801	10,58922,16718	33:36
	4,35373,31305	280,48429	271,61749	1,95252,6442	31,37820	
55	96836,57694,79699	3 88068,05131	4 00745,32118	9,98603,94292,7359	10,58890,78898	33: 0
	4,35668,29413	280,10461	271,23761	1,95393,7225	31,35837	
54	96832,22026,50286	3 87787,94670	4 00474,08357	9,98601,98899,0134	10,58859,43061	32:24
	4,35963,26195	279,72569	270,85851	1,95534,8135	31,33856	
53	96827,86063,24091	3 87508,22101	4 00203,22506	9,98600,03364,1999	10,58828,09205	31:48
	4,36258,21647	279,34758	270,48019	1,95675,9172	31,31878	
52	96823,49805,02444	3 87228,87343	3 99932,74487	9,98598,07688,2827	10,58796,77327	31:12
	4,36553,15771	278,97025	270,10267	1,95817,0336	31,29904	
51	96819,13251,86673	3 86949,90318	3 99662,64220	9,98596,11871,2491	10,58765,47423	30:36
	4,36848,08565	278,59369	269,72591	1,95958,1627	31,27931	
50	96814,76403,78108	3 86671,30949	3 99392,91629	9,98594,15913,0864	10,58734,19492	30: 0
	4,37143,00029	278,21792	269,34994	1,96099,3046	31,25963	
49	96810,39260,78079	3 86393,09157	3 99123,56635	9,98592,19813,7818	10,58702,93529	29:24
	4,37437,90161	277,84292	268,97475	1,96240,4592	31,23996	
48	96806,01822,87918	3 86115,24865	3 98854,59160	9,98590,23573,3226	10,58671,69533	28:48
	4,37732,78960	277,46869	268,60032	1,96381,6266	31,22032	
47	96801,64090,08958	3 85837,77996	3 98585,99128	9,98588,27191,6960	10,58640,47501	28:12
	4,38027,66427	277,09525	268,22668	1,96522,8068	31,20072	
46	96797,26062,42531	3 85560,68471	3 98317,76460	9,98586,30668,8892	10,58609,27429	27:36
	4,38322,52558	276,72256	267,85380	1,96663,9996	31,18115	
45	96792,87739,89973	3 85283,96215	3 98049,91080	9,98584,34004,8896	10,58578,09314	27: 0
	4,38617,37354	276,35065	267,48168	1,96805,2054	31,16159	
44	96788,49122,52619	3 85007,61150	3 97782,42912	9,98582,37199,6842	10,58546,93155	26:24
	4,38912,20815	275,97950	267,11035	1,96946,4239	31,14208	
43	96784,10210,31804	3 84731,63200	3 97515,31877	9,98580,40253,2603	10,58515,78947	25:48
	4,39207,02939	275,60913	266,73976	1,97087,6551	31,12258	
42	96779,71003,28865	3 84456,02287	3 97248,57901	9,98578,43165,6052	10,58484,66689	25:12
	4,39501,83723	275,23950	266,36995	1,97228,8993	31,10311	
41	96775,31501,45142	3 84180,78337	3 96982,20906	9,98576,45936,7059	10,58453,56378	24:36
	4,39796,63171	274,87064	266,00088	1,97370,1563	31,08368	
40	96770,91704,81971	3 83905,91273	3 96716,20818	9,98574,48566,5496	10,58422,48010	24: 0
	4,40091,41277	274,50253	265,63259	1,97511,4261	31,06428	
39	96766,51613,40694	3 83631,41020	3 96450,57559	9,98572,51055,1235	10,58391,41582	23:24
	4,40386,18044	274,13519	265,26503	1,97652,7087	31,04489	
38	96762,11227,22650	3 83357,27501	3 96185,31056	9,98570,53402,4148	10,58360,37093	22:48
	4,40680,93469	273,76860	264,89825	1,97794,0043	31,02554	
37	96757,70546,29181	3 83083,50641	3 95920,41231	9,98568,55608,4105	10,58329,34539	22:12
	4,40975,67551	273,40275	264,53220	1,97935,3126	31,00621	
36	96753,29570,61630	3 82810,10366	3 95655,88011	9,98566,57673,0979	10,58298,33918	21:36
	4,41270,40291	273,03766	264,16692	1,98076,6339	30,98692	
35	96748,88300,21339	3 82537,06600	3 95391,71319	9,98564,59596,4640	10,58267,35226	21: 0
	4,41565,11685	272,67332	263,80236	1,98217,9680	30,96765	
34	96744,46735,09654	3 82264,39268	3 95127,91083	9,98562,61378,4960	10,58236,38461	20:24
	4,41859,81735	272,30971	263,43857	1,98359,3151	30,94841	

GRAD. 75.

14. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	25325,14496,12328	26178,55303	1 03369,80526	9,40355,19399,4281	9,41794,56380	40:12
	16,88393,78830	18,65025	4,72477	28,94418,9179	30,92920	
68	25342,02889,91158	26197,20328	1 03374,53003	9,40384,13818,3460	9,41825,49300	40:48
	16,88316,59207	18,65195	4,72836	28,92358,9693	30,91001	
69	25358,91206,50365	26215,85523	1 03379,25839	9,40413,06177,3153	9,41856,40301	41:24
	16,88239,34441	18,65366	4,73194	28,90301,7627	30,89085	
70	25375,79445,84806	26234,50889	1 03383,99033	9,40441,96479,0780	9,41887,29386	42: 0
	16,88162,04531	18,65537	4,73552	28,88247,2924	30,87172	
71	25392,67607,89337	26253,16426	1 03388,72585	9,40470,84726,3704	9,41918,16558	42:36
	16,88084,69480	18,65708	4,73911	28,86195,5531	30,85262	
72	25409,55692,58817	26271,82134	1 03393,46496	9,40499,70921,9235	9,41949,01820	43:12
	16,88007,29286	18,65879	4,74269	28,84146,5389	30,83354	
73	25426,43699,88103	26290,48013	1 03398,20765	9,40528,55068,4624	9,41979,85174	43:48
	16,87929,83951	18,66050	4,74628	28,82100,2444	30,81450	
74	25443,31629,72054	26309,14063	1 03402,95393	9,40557,37168,7068	9,42010,66624	44:24
	16,87852,33474	18,66221	4,74986	28,80056,6641	30,79547	
75	25460,19482,05528	26327,80284	1 03407,70379	9,40586,17225,3709	9,42041,46171	45: 0
	16,87774,77854	18,66393	4,75345	28,78015,7924	30,77648	
76	25477,07256,83382	26346,46677	1 03412,45724	9,40614,95241,1633	9,42072,23819	45:36
	16,87697,17095	18,66565	4,75703	28,75977,6239	30,75751	
77	25493,94954,00477	26365,13242	1 03417,21427	9,40643,71218,7872	9,42102,99570	46:12
	16,87619,51193	18,66737	4,76063	28,73942,1530	30,73857	
78	25510,82573,51670	26383,79979	1 03421,97490	9,40672,45160,9402	9,42133,73427	46:48
	16,87541,80152	18,66908	4,76421	28,71909,3742	30,71966	
79	25527,70115,31822	26402,46887	1 03426,73911	9,40701,17070,3144	9,42164,45393	47:24
	16,87464,03969	18,67081	4,76780	28,69879,2822	30,70077	
80	25544,57579,35791	26421,13968	1 03431,50691	9,40729,86949,5966	9,42195,15470	48: 0
	16,87386,22646	18,67252	4,77139	28,67851,8714	30,68191	
81	25561,44965,58437	26439,81220	1 03436,27830	9,40758,54801,4680	9,42225,83661	48:36
	16,87308,36183	18,67426	4,77499	28,65827,1364	30,66309	
82	25578,32273,94620	26458,48646	1 03441,05329	9,40787,20628,6044	9,42256,49970	49:12
	16,87230,44581	18,67597	4,77858	28,63805,0719	30,64427	
83	25595,19504,39201	26477,16243	1 03445,83187	9,40815,84433,6763	9,42287,14397	49:48
	16,87152,47839	18,67770	4,78217	28,61785,6723	30,62550	
84	25612,06656,87040	26495,84013	1 03450,61404	9,40844,46219,3486	9,42317,76947	50:24
	16,87074,45957	18,67943	4,78576	28,59768,9323	30,60675	
85	25628,93731,32997	26514,51956	1 03455,39980	9,40873,05988,2809	9,42348,37622	51: 0
	16,86996,38936	18,68116	4,78936	28,57754,8467	30,58802	
86	25645,80727,71933	26533,20072	1 03460,18916	9,40901,63743,1276	9,42378,96424	51:36
	16,86918,26776	18,68289	4,79295	28,55743,4099	30,56933	
87	25662,67645,98709	26551,88361	1 03464,98211	9,40930,19486,5375	9,42409,53357	52:12
	16,86840,09479	18,68462	4,79655	28,53734,6166	30,55065	
88	25679,54486,08188	26570,56823	1 03469,77866	9,40958,73221,1541	9,42440,08422	52:48
	16,86761,87041	18,68635	4,80015	28,51728,4615	30,53200	
89	25696,41247,95229	26589,25458	1 03474,57881	9,40987,24949,6156	9,42470,61622	53:24
	16,86683,59467	18,68809	4,80374	28,49724,9394	30,51339	
90	25713,27931,54696	26607,94267	1 03479,38255	9,41015,74674,5550	9,42501,12961	54: 0
	16,86605,26754	18,68982	4,80734	28,47724,0447	30,49480	
91	25730,14536,81450	26626,63249	1 03484,18989	9,41044,22398,5997	9,42531,62441	54:36
	16,86526,88904	18,69156	4,81095	28,45725,7725	30,47623	
92	25747,01063,70354	26645,32405	1 03489,00084	9,41072,68124,3722	9,42562,10064	55:12
	16,86448,45915	18,69330	4,81454	28,43730,1173	30,45769	
93	25763,87512,16269	26664,01735	1 03493,81538	9,41101,11854,4895	9,42592,55833	55:48
	16,86369,97791	18,69504	4,81814	28,41737,0738	30,43918	
94	25780,73882,14060	26682,71239	1 03498,63352	9,41129,53591,5633	9,42622,99751	56:24
	16,86291,44528	18,69678	4,82174	28,39746,6369	30,42068	
95	25797,60173,58588	26701,40917	1 03503,45526	9,41157,93338,2002	9,42653,41819	57: 0
	16,86212,86130	18,69853	4,82535	28,37758,8012	30,40223	
96	25814,46386,44718	26720,10770	1 03508,28061	9,41186,31097,0014	9,42683,82042	57:36
	16,86134,22594	18,70026	4,82895	28,35773,5616	30,38380	
97	25831,32520,67312	26738,80796	1 03513,10956	9,41214,66870,5630	9,42714,20422	58:12
	16,86055,53922	18,70202	4,83256	28,33790,9130	30,36538	
98	25848,18576,21234	26757,50998	1 03517,94212	9,41243,00661,4760	9,42744,56960	58:48
	16,85976,80115	18,70376	4,83616	28,31810,8499	30,34700	
99	25865,04553,01349	26776,21374	1 03522,77828	9,41271,32472,3259	9,42774,91660	59:24
	16,85898,01172	18,70550	4,83976	28,29833,3675	30,32865	
100	25881,90451,02521	26794,91924	1 03527,61804	9,41299,62305,6934	9,42805,24525	60: 0
	16,85819,17092	18,70726	4,84337	28,27858,4603	30,31031	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	96740,04875,27919	3 81992,08297	3 94864,47226	9,98560,63019,1809	10,58205,43620	19:48
	4,42154,50440	271,94686	263,07551	1,98500,6751	30,92920	
32	96735,62720,77479	3 81720,13611	3 94601,39675	9,98558,64518,5058	10,58174,50700	19:12
	4,42449,17796	271,58474	262,71320	1,98642,0480	30,91001	
31	96731,20271,59683	3 81448,55137	3 94338,68355	9,98556,65876,4578	10,58143,59699	18:36
	4,42743,83806	271,22336	262,35162	1,98783,4337	30,89085	
30	96726,77527,75877	3 81177,32801	3 94076,33193	9,98554,67093,0241	10,58112,70614	18: 0
	4,43038,48467	270,86273	261,99078	1,98924,8326	30,87172	
29	96722,34489,27410	3 80906,46528	3 93814,34115	9,98552,68168,1915	10,58081,83442	17:24
	4,43333,11777	270,50282	261,63068	1,99066,2443	30,85262	
28	96717,91156,15633	3 80635,96246	3 93552,71047	9,98550,69101,9472	10,58050,98180	16:48
	4,43627,73738	270,14365	261,27131	1,99207,6690	30,83354	
27	96713,47528,41895	3 80365,81881	3 93291,43916	9,98548,69894,2782	10,58020,14826	16:12
	4,43922,34348	269,78521	260,91267	1,99349,1066	30,81450	
26	96709,03606,07547	3 80096,03360	3 93030,52649	9,98546,70545,1716	10,57989,33376	15:36
	4,44216,93604	269,42751	260,55476	1,99490,5573	30,79547	
25	96704,59389,13943	3 79826,60609	3 92769,97173	9,98544,71054,6143	10,57958,53829	15: 0
	4,44511,51508	269,07052	260,19757	1,99632,0209	30,77648	
24	96700,14877,62435	3 79557,53557	3 92509,77416	9,98542,71422,5934	10,57927,76181	14:24
	4,44806,08058	268,71426	259,84112	1,99773,4976	30,75751	
23	96695,70071,54377	3 79288,82131	3 92249,93304	9,98540,71649,0958	10,57897,00430	13:48
	4,45100,63252	268,35873	259,48538	1,99914,9872	30,73857	
22	96691,24970,91125	3 79020,46258	3 91990,44766	9,98538,71734,1086	10,57866,26573	13:12
	4,45395,17092	268,00392	259,13037	2,00056,4899	30,71966	
21	96686,79575,74033	3 78752,45866	3 91731,31729	9,98536,71677,6187	10,57835,54607	12:36
	4,45689,69574	267,64982	258,77608	2,00198,0057	30,70077	
20	96682,33886,04459	3 78484,80884	3 91472,54121	9,98534,71479,6130	10,57804,84530	12: 0
	4,45984,20698	267,29645	258,42250	2,00339,5344	30,68191	
19	96677,87901,83761	3 78217,51239	3 91214,11871	9,98532,71140,0786	10,57774,16339	11:24
	4,46278,70464	266,94379	258,06964	2,00481,0763	30,66309	
18	96673,41623,13297	3 77950,56860	3 90956,04907	9,98530,70659,0023	10,57743,50030	10:48
	4,46573,18871	266,59185	257,71749	2,00622,6312	30,64427	
17	96668,95049,94426	3 77683,97675	3 90698,33158	9,98528,70036,3711	10,57712,85603	10:12
	4,46867,65917	266,24061	257,36606	2,00764,1992	30,62550	
16	96664,48182,28509	3 77417,73614	3 90440,96552	9,98526,69272,1719	10,57682,23053	9:36
	4,47162,11602	265,89008	257,01533	2,00905,7802	30,60675	
15	96660,01020,16907	3 77151,84606	3 90183,95019	9,98524,68366,3917	10,57651,62378	9: 0
	4,47456,55924	265,54027	256,66532	2,01047,3744	30,58802	
14	96655,53563,60983	3 76886,30579	3 89927,28487	9,98522,67319,0173	10,57621,03576	8:24
	4,47750,98885	265,19116	256,31600	2,01188,9817	30,56933	
13	96651,05812,62098	3 76621,11463	3 89670,96887	9,98520,66130,0356	10,57590,46643	7:48
	4,48045,40480	264,84276	255,96739	2,01330,6020	30,55065	
12	96646,57767,21618	3 76356,27187	3 89415,00148	9,98518,64799,4336	10,57559,91578	7:12
	4,48339,80712	264,49505	255,61949	2,01472,2357	30,53200	
11	96642,09427,40906	3 76091,77682	3 89159,38199	9,98516,63327,1979	10,57529,38378	6:36
	4,48634,19577	264,14804	255,27228	2,01613,8823	30,51339	
10	96637,60793,21329	3 75827,62878	3 88904,10971	9,98514,61713,3156	10,57498,87039	6: 0
	4,48928,57075	263,80174	254,92577	2,01755,5421	30,49480	
9	96633,11864,64254	3 75563,82704	3 88649,18394	9,98512,59957,7735	10,57468,37559	5:24
	4,49222,93207	263,45614	254,57996	2,01897,2151	30,47623	
8	96628,62641,71047	3 75300,37090	3 88394,60398	9,98510,58060,5584	10,57437,89936	4:48
	4,49517,27969	263,11122	254,23485	2,02038,9013	30,45769	
7	96624,13124,43078	3 75037,25968	3 88140,36913	9,98508,56021,6571	10,57407,44167	4:12
	4,49811,61363	262,76700	253,89042	2,02180,6006	30,43918	
6	96619,63312,81715	3 74774,49268	3 87886,47871	9,98506,53841,0565	10,57377,00249	3:36
	4,50105,93386	262,42346	253,54669	2,02322,3131	30,42068	
5	96615,13206,88329	3 74512,06922	3 87632,93202	9,98504,51518,7434	10,57346,58181	3: 0
	4,50400,24039	262,08063	253,20364	2,02464,0389	30,40223	
4	96610,62806,64290	3 74249,98859	3 87379,72838	9,98502,49054,7045	10,57316,17958	2:24
	4,50694,53318	261,73848	252,86129	2,02605,7779	30,38380	
3	96606,12112,10972	3 73988,25011	3 87126,86709	9,98500,46448,9266	10,57285,79578	1:48
	4,50988,81226	261,39701	252,51962	2,02747,5300	30,36538	
2	96601,61123,29746	3 73726,85310	3 86874,34747	9,98498,43701,3966	10,57255,43040	1:12
	4,51283,07760	261,05622	252,17863	2,02889,2955	30,34700	
1	96597,09840,21986	3 73465,79688	3 86622,16884	9,98496,40812,1011	10,57225,08340	0:36
	4,51577,32918	260,71612	251,83832	2,03031,0741	30,32865	
0	96592,58262,89068	3 73205,08076	3 86370,33052	9,98494,37781,0270	10,57194,75475	0: 0
	4,51871,56701	260,37670	251,49870	2,03172,8661	30,31031	

GRAD. 75.

15. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
0	25881,90451,02521	26794,91924	1 03527,61804	9,41299,62305,6934	9,42805,24525	0: 0
	16,85819,17092	18,70726	4,84337	28,27858,4603	30,31031	
1	25898,76270,19613	26813,62650	1 03532,46141	9,41327,90164,1537	9,42835,55556	0:36
	16,85740,27879	18,70901	4,84698	28,25886,1234	30,29201	
2	25915,62010,47492	26832,33551	1 03537,30839	9,41356,16050,2771	9,42865,84757	1:12
	16,85661,33529	18,71076	4,85059	28,23916,3515	30,27373	
3	25932,47671,81021	26851,04627	1 03542,15898	9,41384,39966,6286	9,42896,12130	1:48
	16,85582,34044	18,71252	4,85419	28,21949,1396	30,25547	
4	25949,33254,15065	26869,75879	1 03547,01317	9,41412,61915,7682	9,42926,37677	2:24
	16,85503,29427	18,71427	4,85781	28,19984,4826	30,23725	
5	25966,18757,44492	26888,47306	1 03551,87098	9,41440,81900,2508	9,42956,61402	3: 0
	16,85424,19673	18,71602	4,86141	28,18022,3752	30,21904	
6	25983,04181,64165	26907,18908	1 03556,73239	9,41468,99922,6260	9,42986,83306	3:36
	16,85345,04786	18,71779	4,86503	28,16062,8125	30,20087	
7	25999,89526,68951	26925,90687	1 03561,59742	9,41497,15985,4385	9,43017,03393	4:12
	16,85265,84765	18,71954	4,86864	28,14105,7895	30,18271	
8	26016,74792,53716	26944,62641	1 03566,46606	9,41525,30091,2280	9,43047,21664	4:48
	16,85186,59610	18,72131	4,87225	28,12151,3009	30,16459	
9	26033,59979,13326	26963,34772	1 03571,33831	9,41553,42242,5289	9,43077,38123	5:24
	16,85107,29322	18,72306	4,87587	28,10199,3420	30,14649	
10	26050,45086,42648	26982,07078	1 03576,21418	9,41581,52441,8709	9,43107,52772	6: 0
	16,85027,93902	18,72483	4,87948	28,08249,9075	30,12842	
11	26067,30114,36550	27000,79561	1 03581,09366	9,41609,60691,7784	9,43137,65614	6:36
	16,84948,53347	18,72660	4,88310	28,06302,9924	30,11036	
12	26084,15062,89897	27019,52221	1 03585,97676	9,41637,66994,7708	9,43167,76650	7:12
	16,84869,07661	18,72836	4,88671	28,04358,5918	30,09234	
13	26100,99931,97558	27038,25057	1 03590,86347	9,41665,71353,3626	9,43197,85884	7:48
	16,84789,56841	18,73013	4,89033	28,02416,7008	30,07434	
14	26117,84721,54399	27056,98070	1 03595,75380	9,41693,73770,0634	9,43227,93318	8:24
	16,84710,00891	18,73190	4,89394	28,00477,3141	30,05637	
15	26134,69431,55290	27075,71260	1 03600,64774	9,41721,74247,3775	9,43257,98955	9: 0
	16,84630,39807	18,73367	4,89757	27,98540,4272	30,03842	
16	26151,54061,95097	27094,44627	1 03605,54531	9,41749,72787,8047	9,43288,02797	9:36
	16,84550,73592	18,73544	4,90118	27,96606,0347	30,02049	
17	26168,38612,68689	27113,18171	1 03610,44649	9,41777,69393,8394	9,43318,04846	10:12
	16,84471,02247	18,73721	4,90481	27,94674,1320	30,00260	
18	26185,23083,70936	27131,91892	1 03615,35130	9,41805,64067,9714	9,43348,05106	10:48
	16,84391,25768	18,73899	4,90842	27,92744,7140	29,98472	
19	26202,07474,96704	27150,65791	1 03620,25972	9,41833,56812,6854	9,43378,03578	11:24
	16,84311,44161	18,74076	4,91205	27,90817,7758	29,96687	
20	26218,91786,40865	27169,39867	1 03625,17177	9,41861,47630,4612	9,43408,00265	12: 0
	16,84231,57421	18,74254	4,91567	27,88893,3127	29,94905	
21	26235,76017,98286	27188,14121	1 03630,08744	9,41889,36523,7739	9,43437,95170	12:36
	16,84151,65552	18,74433	4,91929	27,86971,3195	29,93125	
22	26252,60169,63838	27206,88554	1 03635,00673	9,41917,23495,0934	9,43467,88295	13:12
	16,84071,68552	18,74610	4,92292	27,85051,7915	29,91347	
23	26269,44241,32390	27225,63164	1 03639,92965	9,41945,08546,8849	9,43497,79642	13:48
	16,83991,66422	18,74788	4,92654	27,83134,7239	29,89573	
24	26286,28232,98812	27244,37952	1 03644,85619	9,41972,91681,6088	9,43527,69215	14:24
	16,83911,59163	18,74967	4,93017	27,81220,1119	29,87800	
25	26303,12144,57975	27263,12919	1 03649,78636	9,42000,72901,7207	9,43557,57015	15: 0
	16,83831,46774	18,75145	4,93380	27,79307,9503	29,86030	
26	26319,95976,04749	27281,88064	1 03654,72016	9,42028,52209,6710	9,43587,43045	15:36
	16,83751,29255	18,75323	4,93742	27,77398,2348	29,84262	
27	26336,79727,34004	27300,63387	1 03659,65758	9,42056,29607,9058	9,43617,27307	16:12
	16,83671,06609	18,75502	4,94105	27,75490,9603	29,82497	
28	26353,63398,40613	27319,38889	1 03664,59863	9,42084,05098,8661	9,43647,09804	16:48
	16,83590,78832	18,75682	4,94468	27,73586,1219	29,80735	
29	26370,46989,19445	27338,14571	1 03669,54331	9,42111,78684,9880	9,43676,90539	17:24
	16,83510,45928	18,75860	4,94831	27,71683,7150	29,78974	
30	26387,30499,65373	27356,90431	1 03674,49162	9,42139,50368,7030	9,43706,69513	18: 0
	16,83430,07895	18,76039	4,95194	27,69783,7350	29,77217	
31	26404,13929,73268	27375,66470	1 03679,44356	9,42167,20152,4380	9,43736,46730	18:36
	16,83349,64735	18,76219	4,95558	27,67886,1767	29,75461	
32	26420,97279,38003	27394,42689	1 03684,39914	9,42194,88038,6147	9,43766,22191	19:12
	16,83269,16445	18,76398	4,95920	27,65991,0357	29,73708	
33	26437,80548,54448	27413,19087	1 03689,35834	9,42222,54029,6504	9,43795,95899	19:48
	16,83188,63030	18,76577	4,96284	27,64098,3071	29,71958	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
100	96592,58262,89068	3 73205,08076	3 86370,33052	9,98494,37781,0270	10,57194,75475	60: 0
	4,51871,56701	260,37670	251,49870	2,03172,8661	30,31031	
99	96588,06391,32367	3 72944,70406	3 86118,83182	9,98492,34608,1609	10,57164,44444	59:24
	4,52165,79108	260,03796	251,15975	2,03314,6712	30,29201	
98	96583,54225,53259	3 72684,66610	3 85867,67207	9,98490,31293,4897	10,57134,15243	58:48
	4,52460,00138	259,69989	250,82148	2,03456,4897	30,27373	
97	96579,01765,53121	3 72424,96621	3 85616,85059	9,98488,27837,0000	10,57103,87870	58:12
	4,52754,19788	259,36249	250,48388	2,03598,3215	30,25547	
96	96574,49011,33333	3 72165,60372	3 85366,36671	9,98486,24238,6785	10,57073,62323	57:36
	4,53048,38061	259,02578	250,14696	2,03740,1665	30,23725	
95	96569,95962,95272	3 71906,57794	3 85116,21975	9,98484,20498,5120	10,57043,38598	57: 0
	4,53342,54952	258,68973	249,81070	2,03882,0249	30,21904	
94	96565,42620,40320	3 71647,88821	3 84866,40905	9,98482,16616,4871	10,57013,16694	56:24
	4,53636,70463	258,35435	249,47512	2,04023,8966	30,20087	
93	96560,88983,69857	3 71389,53386	3 84616,93393	9,98480,12592,5905	10,56982,96607	55:48
	4,53930,84592	258,01963	249,14020	2,04165,7816	30,18271	
92	96556,35052,85265	3 71131,51423	3 84367,79373	9,98478,08426,8089	10,56952,78336	55:12
	4,54224,97339	257,68559	248,80595	2,04307,6799	30,16459	
91	96551,80827,87926	3 70873,82864	3 84118,98778	9,98476,04119,1290	10,56922,61877	54:36
	4,54519,08701	257,35221	248,47237	2,04449,5917	30,14649	
90	96547,26308,79225	3 70616,47643	3 83870,51541	9,98473,99669,5373	10,56892,47228	54: 0
	4,54813,18679	257,01948	248,13943	2,04591,5167	30,12842	
89	96542,71495,60546	3 70359,45695	3 83622,37598	9,98471,95078,0206	10,56862,34386	53:24
	4,55107,27272	256,68743	247,80718	2,04733,4551	30,11036	
88	96538,16388,33274	3 70102,76952	3 83374,56880	9,98469,90344,5655	10,56832,23350	52:48
	4,55401,34478	256,35603	247,47556	2,04875,4070	30,09234	
87	96533,60986,98796	3 69846,41349	3 83127,09324	9,98467,85469,1585	10,56802,14116	52:12
	4,55695,40298	256,02528	247,14462	2,05017,3722	30,07434	
86	96529,05291,58498	3 69590,38821	3 82879,94862	9,98465,80451,7863	10,56772,06682	51:36
	4,55989,44728	255,69519	246,81432	2,05159,3509	30,05637	
85	96524,49302,13770	3 69334,69302	3 82633,13430	9,98463,75292,4354	10,56742,01045	51: 0
	4,56283,47770	255,36576	246,48468	2,05301,3428	30,03842	
84	96519,93018,66000	3 69079,32726	3 82386,64962	9,98461,69991,0926	10,56711,97203	50:24
	4,56577,49422	255,03697	246,15569	2,05443,3483	30,02049	
83	96515,36441,16578	3 68824,29029	3 82140,49393	9,98459,64547,7443	10,56681,95154	49:48
	4,56871,49684	254,70884	245,82734	2,05585,3673	30,00260	
82	96510,79569,66894	3 68569,58145	3 81894,66659	9,98457,58962,3770	10,56651,94894	49:12
	4,57165,48553	254,38136	245,49966	2,05727,3995	29,98472	
81	96506,22404,18341	3 68315,20009	3 81649,16693	9,98455,53234,9775	10,56621,96422	48:36
	4,57459,46030	254,05452	245,17261	2,05869,4454	29,96687	
80	96501,64944,72311	3 68061,14557	3 81403,99432	9,98453,47365,5321	10,56591,99735	48: 0
	4,57753,42113	253,72832	244,84622	2,06011,5047	29,94905	
79	96497,07191,30198	3 67807,41725	3 81159,14810	9,98451,41354,0274	10,56562,04830	47:24
	4,58047,36802	253,40277	244,52045	2,06153,5774	29,93125	
78	96492,49143,93396	3 67554,01448	3 80914,62765	9,98449,35200,4500	10,56532,11705	46:48
	4,58341,30096	253,07787	244,19534	2,06295,6636	29,91347	
77	96487,90802,63300	3 67300,93661	3 80670,43231	9,98447,28904,7864	10,56502,20358	46:12
	4,58635,21993	252,75359	243,87086	2,06437,7633	29,89573	
76	96483,32167,41307	3 67048,18302	3 80426,56145	9,98445,22467,0231	10,56472,30785	45:36
	4,58929,12494	252,42997	243,54703	2,06579,8766	29,87800	
75	96478,73238,28813	3 66795,75305	3 80183,01442	9,98443,15887,1465	10,56442,42985	45: 0
	4,59223,01596	252,10697	243,22382	2,06722,0034	29,86030	
74	96474,14015,27217	3 66543,64608	3 79939,79060	9,98441,09165,1431	10,56412,56955	44:24
	4,59516,89300	251,78461	242,90126	2,06864,1437	29,84262	
73	96469,54498,37917	3 66291,86147	3 79696,88934	9,98439,02300,9994	10,56382,72693	43:48
	4,59810,75604	251,46289	242,57932	2,07006,2975	29,82497	
72	96464,94687,62313	3 66040,39858	3 79454,31002	9,98436,95294,7019	10,56352,90196	43:12
	4,60104,60507	251,14179	242,25802	2,07148,4649	29,80735	
71	96460,34583,01806	3 65789,25679	3 79212,05200	9,98434,88146,2370	10,56323,09461	42:36
	4,60398,44008	250,82132	241,93734	2,07290,6458	29,78974	
70	96455,74184,57798	3 65538,43547	3 78970,11466	9,98432,80855,5912	10,56293,30487	42: 0
	4,60692,26107	250,50149	241,61731	2,07432,8404	29,77217	
69	96451,13492,31691	3 65287,93398	3 78728,49735	9,98430,73422,7508	10,56263,53270	41:24
	4,60986,06804	250,18228	241,29788	2,07575,0485	29,75461	
68	96446,52506,24887	3 65037,75170	3 78487,19947	9,98428,65847,7023	10,56233,77809	40:48
	4,61279,86095	249,86370	240,97909	2,07717,2702	29,73708	
67	96441,91226,38792	3 64787,88800	3 78246,22038	9,98426,58130,4321	10,56204,04101	40:12
	4,61573,63981	249,54573	240,66092	2,07859,5055	29,71958	

GRAD. 74.

15. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	26437,80548,54448	27413,19087	1 03689,35834	9,42222,54029,6504	9,43795,95899	19:48
	16,83188,63030	18,76577	4,96284	27,64098,3071	29,71958	
34	26454,63737,17478	27431,95664	1 03694,32118	9,42250,18127,9575	9,43825,67857	20:24
	16,83108,04487	18,76758	4,96647	27,62207,9864	29,70210	
35	26471,46845,21965	27450,72422	1 03699,28765	9,42277,80335,9439	9,43855,38067	21: 0
	16,83027,40816	18,76937	4,97011	27,60320,0686	29,68464	
36	26488,29872,62781	27469,49359	1 03704,25776	9,42305,40656,0125	9,43885,06531	21:36
	16,82946,72019	18,77117	4,97375	27,58434,5493	29,66721	
37	26505,12819,34800	27488,26476	1 03709,23151	9,42332,99090,5618	9,43914,73252	22:12
	16,82865,98095	18,77297	4,97738	27,56551,4235	29,64980	
38	26521,95685,32895	27507,03773	1 03714,20889	9,42360,55641,9853	9,43944,38232	22:48
	16,82785,19045	18,77478	4,98101	27,54670,6867	29,63241	
39	26538,78470,51940	27525,81251	1 03719,18990	9,42388,10312,6720	9,43974,01473	23:24
	16,82704,34869	18,77658	4,98466	27,52792,3344	29,61506	
40	26555,61174,86809	27544,58909	1 03724,17456	9,42415,63105,0064	9,44003,62979	24: 0
	16,82623,45567	18,77838	4,98829	27,50916,3616	29,59772	
41	26572,43798,32376	27563,36747	1 03729,16285	9,42443,14021,3680	9,44033,22751	24:36
	16,82542,51139	18,78019	4,99194	27,49042,7640	29,58040	
42	26589,26340,83515	27582,14766	1 03734,15479	9,42470,63064,1320	9,44062,80791	25:12
	16,82461,51587	18,78200	4,99557	27,47171,5368	29,56312	
43	26606,08802,35102	27600,92966	1 03739,15036	9,42498,10235,6688	9,44092,37103	25:48
	16,82380,46909	18,78381	4,99922	27,45302,6755	29,54585	
44	26622,91182,82011	27619,71347	1 03744,14958	9,42525,55538,3443	9,44121,91688	26:24
	16,82299,37106	18,78562	5,00286	27,43436,1753	29,52862	
45	26639,73482,19117	27638,49909	1 03749,15244	9,42552,98974,5196	9,44151,44550	27: 0
	16,82218,22179	18,78743	5,00650	27,41572,0317	29,51139	
46	26656,55700,41296	27657,28652	1 03754,15894	9,42580,40546,5513	9,44180,95689	27:36
	16,82137,02128	18,78925	5,01015	27,39710,2404	29,49420	
47	26673,37837,43424	27676,07577	1 03759,16909	9,42607,80256,7917	9,44210,45109	28:12
	16,82055,76952	18,79106	5,01379	27,37850,7965	29,47703	
48	26690,19893,20376	27694,86683	1 03764,18288	9,42635,18107,5882	9,44239,92812	28:48
	16,81974,46652	18,79288	5,01744	27,35993,6955	29,45988	
49	26707,01867,67028	27713,65971	1 03769,20032	9,42662,54101,2837	9,44269,38800	29:24
	16,81893,11229	18,79470	5,02108	27,34138,9329	29,44277	
50	26723,83760,78257	27732,45441	1 03774,22140	9,42689,88240,2166	9,44298,83077	30: 0
	16,81811,70683	18,79651	5,02473	27,32286,5043	29,42566	
51	26740,65572,48940	27751,25092	1 03779,24613	9,42717,20526,7209	9,44328,25643	30:36
	16,81730,25013	18,79834	5,02838	27,30436,4051	29,40858	
52	26757,47302,73953	27770,04926	1 03784,27451	9,42744,50963,1260	9,44357,66501	31:12
	16,81648,74220	18,80016	5,03203	27,28588,6307	29,39153	
53	26774,28951,48173	27788,84942	1 03789,30654	9,42771,79551,7567	9,44387,05654	31:48
	16,81567,18306	18,80198	5,03568	27,26743,1767	29,37451	
54	26791,10518,66479	27807,65140	1 03794,34222	9,42799,06294,9334	9,44416,43105	32:24
	16,81485,57269	18,80381	5,03933	27,24900,0385	29,35749	
55	26807,92004,23748	27826,45521	1 03799,38155	9,42826,31194,9719	9,44445,78854	33: 0
	16,81403,91109	18,80563	5,04298	27,23059,2120	29,34052	
56	26824,73408,14857	27845,26084	1 03804,42453	9,42853,54254,1839	9,44475,12906	33:36
	16,81322,19828	18,80747	5,04663	27,21220,6922	29,32355	
57	26841,54730,34685	27864,06831	1 03809,47116	9,42880,75474,8761	9,44504,45261	34:12
	16,81240,43425	18,80929	5,05029	27,19384,4751	29,30662	
58	26858,35970,78110	27882,87760	1 03814,52145	9,42907,94859,3512	9,44533,75923	34:48
	16,81158,61900	18,81112	5,05394	27,17550,5561	29,28970	
59	26875,17129,40010	27901,68872	1 03819,57539	9,42935,12409,9073	9,44563,04893	35:24
	16,81076,75256	18,81296	5,05759	27,15718,9306	29,27281	
60	26891,98206,15266	27920,50168	1 03824,63298	9,42962,28128,8379	9,44592,32174	36: 0
	16,80994,83489	18,81479	5,06125	27,13889,5946	29,25595	
61	26908,79200,98755	27939,31647	1 03829,69423	9,42989,42018,4325	9,44621,57769	36:36
	16,80912,86602	18,81662	5,06491	27,12062,5433	29,23910	
62	26925,60113,85357	27958,13309	1 03834,75914	9,43016,54080,9758	9,44650,81679	37:12
	16,80830,84596	18,81846	5,06857	27,10237,7725	29,22228	
63	26942,40944,69953	27976,95155	1 03839,82771	9,43043,64318,7483	9,44680,03907	37:48
	16,80748,77468	18,82030	5,07222	27,08415,2779	29,20549	
64	26959,21693,47421	27995,77185	1 03844,89993	9,43070,72734,0262	9,44709,24456	38:24
	16,80666,65221	18,82213	5,07588	27,06595,0549	29,18870	
65	26976,02360,12642	28014,59398	1 03849,97581	9,43097,79329,0811	9,44738,43326	39: 0
	16,80584,47854	18,82398	5,07954	27,04777,0993	29,17196	
66	26992,82944,60496	28033,41796	1 03855,05535	9,43124,84106,1804	9,44767,60522	39:36
	16,80502,25369	18,82582	5,08321	27,02961,4068	29,15522	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	96441,91226,38792	3 64787,88800	3 78246,22038	9,98426,58130,4321	10,56204,04101	40:12
	4,61573,63981	249,54573	240,66092	2,07859,5055	29,71958	
66	96437,29652,74811	3 64538,34227	3 78005,55946	9,98424,50270,9266	10,56174,32143	39:36
	4,61867,40461	249,22840	240,34337	2,08001,7544	29,70210	
65	96432,67785,34350	3 64289,11387	3 77765,21609	9,98422,42269,1722	10,56144,61933	39: 0
	4,62161,15535	248,91167	240,02645	2,08144,0170	29,68464	
64	96428,05624,18815	3 64040,20220	3 77525,18964	9,98420,34125,1552	10,56114,93469	38:24
	4,62454,89201	248,59558	239,71013	2,08286,2931	29,66721	
63	96423,43169,29614	3 63791,60662	3 77285,47951	9,98418,25838,8621	10,56085,26748	37:48
	4,62748,61457	248,28008	239,39444	2,08428,5830	29,64980	
62	96418,80420,68157	3 63543,32654	3 77046,08507	9,98416,17410,2791	10,56055,61768	37:12
	4,63042,32305	247,96522	239,07936	2,08570,8865	29,63241	
61	96414,17378,35852	3 63295,36132	3 76807,00571	9,98414,08839,3926	10,56025,98527	36:36
	4,63336,01742	247,65097	238,76489	2,08713,2037	29,61506	
60	96409,54042,34110	3 63047,71035	3 76568,24082	9,98412,00126,1889	10,55996,37021	36: 0
	4,63629,69767	247,33732	238,45105	2,08855,5345	29,59772	
59	96404,90412,64343	3 62800,37303	3 76329,78977	9,98409,91270,6544	10,55966,77249	35:24
	4,63923,36380	247,02429	238,13780	2,08997,8790	29,58040	
58	96400,26489,27963	3 62553,34874	3 76091,65197	9,98407,82272,7754	10,55937,19209	34:48
	4,64217,01580	246,71186	237,82516	2,09140,2373	29,56312	
57	96395,62272,26383	3 62306,63688	3 75853,82681	9,98405,73132,5381	10,55907,62897	34:12
	4,64510,65365	246,40005	237,51314	2,09282,6092	29,54585	
56	96390,97761,61018	3 62060,23683	3 75616,31367	9,98403,63849,9289	10,55878,08312	33:36
	4,64804,27737	246,08884	237,20172	2,09424,9949	29,52862	
55	96386,32957,33281	3 61814,14799	3 75379,11195	9,98401,54424,9340	10,55848,55450	33: 0
	4,65097,88691	245,77823	236,89090	2,09567,3943	29,51139	
54	96381,67859,44590	3 61568,36976	3 75142,22105	9,98399,44857,5397	10,55819,04311	32:24
	4,65391,48230	245,46822	236,58069	2,09709,8074	29,49420	
53	96377,02467,96360	3 61322,90154	3 74905,64036	9,98397,35147,7323	10,55789,54891	31:48
	4,65685,06350	245,15883	236,27107	2,09852,2344	29,47703	
52	96372,36782,90010	3 61077,74271	3 74669,36929	9,98395,25295,4979	10,55760,07188	31:12
	4,65978,63052	244,85002	235,96206	2,09994,6750	29,45988	
51	96367,70804,26958	3 60832,89269	3 74433,40723	9,98393,15300,8229	10,55730,61200	30:36
	4,66272,18335	244,54181	235,65365	2,10137,1294	29,44277	
50	96363,04532,08623	3 60588,35088	3 74197,75358	9,98391,05163,6935	10,55701,16923	30: 0
	4,66565,72197	244,23421	235,34582	2,10279,5977	29,42566	
49	96358,37966,36426	3 60344,11667	3 73962,40776	9,98388,94884,0958	10,55671,74357	29:24
	4,66859,24637	243,92719	235,03860	2,10422,0797	29,40858	
48	96353,71107,11789	3 60100,18948	3 73727,36916	9,98386,84462,0161	10,55642,33499	28:48
	4,67152,75657	243,62077	234,73196	2,10564,5755	29,39153	
47	96349,03954,36132	3 59856,56871	3 73492,63720	9,98384,73897,4406	10,55612,94346	28:12
	4,67446,25252	243,31495	234,42593	2,10707,0851	29,37451	
46	96344,36508,10880	3 59613,25376	3 73258,21127	9,98382,63190,3555	10,55583,56895	27:36
	4,67739,73424	243,00970	234,12047	2,10849,6087	29,35749	
45	96339,68768,37456	3 59370,24406	3 73024,09080	9,98380,52340,7468	10,55554,21146	27: 0
	4,68033,20171	242,70505	233,81562	2,10992,1460	29,34052	
44	96335,00735,17285	3 59127,53901	3 72790,27518	9,98378,41348,6008	10,55524,87094	26:24
	4,68326,65493	242,40100	233,51133	2,11134,6971	29,32355	
43	96330,32408,51792	3 58885,13801	3 72556,76385	9,98376,30213,9037	10,55495,54739	25:48
	4,68620,09387	242,09751	233,20765	2,11277,2621	29,30662	
42	96325,63788,42405	3 58643,04050	3 72323,55620	9,98374,18936,6416	10,55466,24077	25:12
	4,68913,51854	241,79462	232,90455	2,11419,8411	29,28970	
41	96320,94874,90551	3 58401,24588	3 72090,65165	9,98372,07516,8005	10,55436,95107	24:36
	4,69206,92893	241,49232	232,60202	2,11562,4338	29,27281	
40	96316,25667,97658	3 58159,75356	3 71858,04963	9,98369,95954,3667	10,55407,67826	24: 0
	4,69500,32502	241,19058	232,30009	2,11705,0406	29,25595	
39	96311,56167,65156	3 57918,56298	3 71625,74954	9,98367,84249,3261	10,55378,42231	23:24
	4,69793,70682	240,88944	231,99872	2,11847,6611	29,23910	
38	96306,86373,94474	3 57677,67354	3 71393,75082	9,98365,72401,6650	10,55349,18321	22:48
	4,70087,07430	240,58886	231,69794	2,11990,2956	29,22228	
37	96302,16286,87044	3 57437,08468	3 71162,05288	9,98363,60411,3694	10,55319,96093	22:12
	4,70380,42747	240,28888	231,39773	2,12132,9440	29,20549	
36	96297,45906,44297	3 57196,79580	3 70930,65515	9,98361,48278,4254	10,55290,75544	21:36
	4,70673,76630	239,98945	231,09810	2,12275,6063	29,18870	
35	96292,75232,67667	3 56956,80635	3 70699,55705	9,98359,36002,8191	10,55261,56674	21: 0
	4,70967,09079	239,69061	230,79904	2,12418,2827	29,17196	
34	96288,04265,58588	3 56717,11574	3 70468,75801	9,98357,23584,5364	10,55232,39478	20:24
	4,71260,40095	239,39234	230,50056	2,12560,9729	29,15522	

GRAD. 74.

15. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	27009,63446,85865	28052,24378	1 03860,13856	9,43151,87067,5872	9,44796,76044	40:12
	16,80419,97763	18,82767	5,08686	27,01147,9729	29,13852	
68	27026,43866,83628	28071,07145	1 03865,22542	9,43178,88215,5601	9,44825,89896	40:48
	16,80337,65039	18,82951	5,09053	26,99336,7934	29,12183	
69	27043,24204,48667	28089,90096	1 03870,31595	9,43205,87552,3535	9,44855,02079	41:24
	16,80255,27197	18,83135	5,09419	26,97527,8641	29,10517	
70	27060,04459,75864	28108,73231	1 03875,41014	9,43232,85080,2176	9,44884,12596	42: 0
	16,80172,84235	18,83320	5,09786	26,95721,1803	29,08853	
71	27076,84632,60099	28127,56551	1 03880,50800	9,43259,80801,3979	9,44913,21449	42:36
	16,80090,36157	18,83505	5,10152	26,93916,7382	29,07191	
72	27093,64722,96256	28146,40056	1 03885,60952	9,43286,74718,1361	9,44942,28640	43:12
	16,80007,82960	18,83691	5,10518	26,92114,5332	29,05532	
73	27110,44730,79216	28165,23747	1 03890,71470	9,43313,66832,6693	9,44971,34172	43:48
	16,79925,24645	18,83875	5,10886	26,90314,5611	29,03875	
74	27127,24656,03861	28184,07622	1 03895,82356	9,43340,57147,2304	9,45000,38047	44:24
	16,79842,61213	18,84061	5,11252	26,88516,8177	29,02220	
75	27144,04498,65074	28202,91683	1 03900,93608	9,43367,45664,0481	9,45029,40267	45: 0
	16,79759,92665	18,84246	5,11619	26,86721,2987	29,00567	
76	27160,84258,57739	28221,75929	1 03906,05227	9,43394,32385,3468	9,45058,40834	45:36
	16,79677,18998	18,84432	5,11986	26,84928,0000	28,98917	
77	27177,63935,76737	28240,60361	1 03911,17213	9,43421,17313,3468	9,45087,39751	46:12
	16,79594,40217	18,84618	5,12352	26,83136,9171	28,97268	
78	27194,43530,16954	28259,44979	1 03916,29565	9,43448,00450,2639	9,45116,37019	46:48
	16,79511,56317	18,84804	5,12720	26,81348,0461	28,95622	
79	27211,23041,73271	28278,29783	1 03921,42285	9,43474,81798,3100	9,45145,32641	47:24
	16,79428,67303	18,84989	5,13088	26,79561,3825	28,93979	
80	27228,02470,40574	28297,14772	1 03926,55373	9,43501,61359,6925	9,45174,26620	48: 0
	16,79345,73173	18,85176	5,13454	26,77776,9223	28,92337	
81	27244,81816,13747	28315,99948	1 03931,68827	9,43528,39136,6148	9,45203,18957	48:36
	16,79262,73926	18,85362	5,13822	26,75994,6614	28,90698	
82	27261,61078,87673	28334,85310	1 03936,82649	9,43555,15131,2762	9,45232,09655	49:12
	16,79179,69564	18,85549	5,14189	26,74214,5954	28,89060	
83	27278,40258,57237	28353,70859	1 03941,96838	9,43581,89345,8716	9,45260,98715	49:48
	16,79096,60088	18,85735	5,14557	26,72436,7202	28,87426	
84	27295,19355,17325	28372,56594	1 03947,11395	9,43608,61782,5918	9,45289,86141	50:24
	16,79013,45497	18,85922	5,14924	26,70661,0317	28,85793	
85	27311,98368,62822	28391,42516	1 03952,26319	9,43635,32443,6235	9,45318,71934	51: 0
	16,78930,25790	18,86109	5,15292	26,68887,5258	28,84162	
86	27328,77298,88612	28410,28625	1 03957,41611	9,43662,01331,1493	9,45347,56096	51:36
	16,78847,00971	18,86297	5,15660	26,67116,1983	28,82534	
87	27345,56145,89583	28429,14922	1 03962,57271	9,43688,68447,3476	9,45376,38630	52:12
	16,78763,71036	18,86483	5,16028	26,65347,0451	28,80908	
88	27362,34909,60619	28448,01405	1 03967,73299	9,43715,33794,3927	9,45405,19538	52:48
	16,78680,35987	18,86670	5,16396	26,63580,0622	28,79283	
89	27379,13589,96606	28466,88075	1 03972,89695	9,43741,97374,4549	9,45433,98821	53:24
	16,78596,95826	18,86859	5,16764	26,61815,2452	28,77662	
90	27395,92186,92432	28485,74934	1 03978,06459	9,43768,59189,7001	9,45462,76483	54: 0
	16,78513,50552	18,87045	5,17132	26,60052,5903	28,76043	
91	27412,70700,42984	28504,61979	1 03983,23591	9,43795,19242,2904	9,45491,52526	54:36
	16,78430,00163	18,87234	5,17500	26,58292,0933	28,74425	
92	27429,49130,43147	28523,49213	1 03988,41091	9,43821,77534,3837	9,45520,26951	55:12
	16,78346,44662	18,87421	5,17868	26,56533,7503	28,72809	
93	27446,27476,87809	28542,36634	1 03993,58959	9,43848,34068,1340	9,45548,99760	55:48
	16,78262,84048	18,87610	5,18237	26,54777,5569	28,71197	
94	27463,05739,71857	28561,24244	1 03998,77196	9,43874,88845,6909	9,45577,70957	56:24
	16,78179,18324	18,87797	5,18606	26,53023,5094	28,69585	
95	27479,83918,90181	28580,12041	1 04003,95802	9,43901,41869,2003	9,45606,40542	57: 0
	16,78095,47485	18,87986	5,18973	26,51271,6036	28,67977	
96	27496,62014,37666	28599,00027	1 04009,14775	9,43927,93140,8039	9,45635,08519	57:36
	16,78011,71536	18,88175	5,19343	26,49521,8354	28,66370	
97	27513,40026,09202	28617,88202	1 04014,34118	9,43954,42662,6393	9,45663,74889	58:12
	16,77927,90475	18,88363	5,19711	26,47774,2010	28,64765	
98	27530,17953,99677	28636,76565	1 04019,53829	9,43980,90436,8403	9,45692,39654	58:48
	16,77844,04303	18,88552	5,20081	26,46028,6962	28,63164	
99	27546,95798,03980	28655,65117	1 04024,73910	9,44007,36465,5365	9,45721,02818	59:24
	16,77760,13019	18,88741	5,20449	26,44285,3171	28,61563	
100	27563,73558,16999	28674,53858	1 04029,94359	9,44033,80750,8536	9,45749,64381	60: 0
	16,77676,16626	18,88929	5,20818	26,42544,0597	28,59965	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	96283,33005,18493	3 56477,72340	3 70238,25745	9,98355,11023,5635	10,55203,23956	19:48
	4,71553,69674	239,09464	230,20264	2,12703,6772	29,13852	
32	96278,61451,48819	3 56238,62876	3 70008,05481	9,98352,98319,8863	10,55174,10104	19:12
	4,71846,97817	238,79751	229,90530	2,12846,3954	29,12183	
31	96273,89604,51002	3 55999,83125	3 69778,14951	9,98350,85473,4909	10,55144,97921	18:36
	4,72140,24523	238,50094	229,60853	2,12989,1276	29,10517	
30	96269,17464,26479	3 55761,33031	3 69548,54098	9,98348,72484,3633	10,55115,87404	18: 0
	4,72433,49791	238,20495	229,31231	2,13131,8737	29,08853	
29	96264,45030,76688	3 55523,12536	3 69319,22867	9,98346,59352,4896	10,55086,78551	17:24
	4,72726,73618	237,90951	229,01666	2,13274,6340	29,07191	
28	96259,72304,03070	3 55285,21585	3 69090,21201	9,98344,46077,8556	10,55057,71360	16:48
	4,73019,96008	237,61465	228,72159	2,13417,4082	29,05532	
27	96254,99284,07062	3 55047,60120	3 68861,49042	9,98342,32660,4474	10,55028,65828	16:12
	4,73313,16954	237,32035	228,42706	2,13560,1965	29,03875	
26	96250,25970,90108	3 54810,28085	3 68633,06336	9,98340,19100,2509	10,54999,61953	15:36
	4,73606,36461	237,02659	228,13311	2,13702,9988	29,02220	
25	96245,52364,53647	3 54573,25426	3 68404,93025	9,98338,05397,2521	10,54970,59733	15: 0
	4,73899,54523	236,73342	227,83970	2,13845,8151	29,00567	
24	96240,78464,99124	3 54336,52084	3 68177,09055	9,98335,91551,4370	10,54941,59166	14:24
	4,74192,71143	236,44078	227,54687	2,13988,6456	28,98917	
23	96236,04272,27981	3 54100,08006	3 67949,54368	9,98333,77562,7914	10,54912,60249	13:48
	4,74485,86318	236,14872	227,25458	2,14131,4901	28,97268	
22	96231,29786,41663	3 53863,93134	3 67722,28910	9,98331,63431,3013	10,54883,62981	13:12
	4,74779,00047	235,85720	226,96285	2,14274,3487	28,95622	
21	96226,55007,41616	3 53628,07414	3 67495,32625	9,98329,49156,9526	10,54854,67359	12:36
	4,75072,12331	235,56624	226,67167	2,14417,2213	28,93979	
20	96221,79935,29285	3 53392,50790	3 67268,65458	9,98327,34739,7313	10,54825,73380	12: 0
	4,75365,23166	235,27583	226,38104	2,14560,1082	28,92337	
19	96217,04570,06119	3 53157,23207	3 67042,27354	9,98325,20179,6231	10,54796,81043	11:24
	4,75658,32555	234,98598	226,09098	2,14703,0091	28,90698	
18	96212,28911,73564	3 52922,24609	3 66816,18256	9,98323,05476,6140	10,54767,90345	10:48
	4,75951,40495	234,69666	225,80145	2,14845,9241	28,89060	
17	96207,52960,33069	3 52687,54943	3 66590,38111	9,98320,90630,6899	10,54739,01285	10:12
	4,76244,46983	234,40790	225,51247	2,14988,8533	28,87426	
16	96202,76715,86086	3 52453,14153	3 66364,86864	9,98318,75641,8366	10,54710,13859	9:36
	4,76537,52022	234,11970	225,22405	2,15131,7966	28,85793	
15	96198,00178,34064	3 52219,02183	3 66139,64459	9,98316,60510,0400	10,54681,28066	9: 0
	4,76830,55609	233,83202	224,93616	2,15274,7542	28,84162	
14	96193,23347,78455	3 51985,18981	3 65914,70843	9,98314,45235,2858	10,54652,43904	8:24
	4,77123,57744	233,54490	224,64882	2,15417,7258	28,82534	
13	96188,46224,20711	3 51751,64491	3 65690,05961	9,98312,29817,5600	10,54623,61370	7:48
	4,77416,58425	233,25832	224,36202	2,15560,7117	28,80908	
12	96183,68807,62286	3 51518,38659	3 65465,69759	9,98310,14256,8483	10,54594,80462	7:12
	4,77709,57651	232,97228	224,07577	2,15703,7117	28,79283	
11	96178,91098,04635	3 51285,41431	3 65241,62182	9,98307,98553,1366	10,54566,01179	6:36
	4,78002,55424	232,68678	223,79005	2,15846,7260	28,77662	
10	96174,13095,49211	3 51052,72753	3 65017,83177	9,98305,82706,4106	10,54537,23517	6: 0
	4,78295,51738	232,40182	223,50488	2,15989,7545	28,76043	
9	96169,34799,97473	3 50820,32571	3 64794,32689	9,98303,66716,6561	10,54508,47474	5:24
	4,78588,46598	232,11739	223,22023	2,16132,7972	28,74425	
8	96164,56211,50875	3 50588,20832	3 64571,10666	9,98301,50583,8589	10,54479,73049	4:48
	4,78881,39998	231,83351	222,93613	2,16275,8541	28,72809	
7	96159,77330,10877	3 50356,37481	3 64348,17053	9,98299,34308,0048	10,54451,00240	4:12
	4,79174,31940	231,55015	222,65255	2,16418,9253	28,71197	
6	96154,98155,78937	3 50124,82466	3 64125,51798	9,98297,17889,0795	10,54422,29043	3:36
	4,79467,22422	231,26733	222,36952	2,16562,0107	28,69585	
5	96150,18688,56515	3 49893,55733	3 63903,14846	9,98295,01327,0688	10,54393,59458	3: 0
	4,79760,11444	230,98505	222,08702	2,16705,1105	28,67977	
4	96145,38928,45071	3 49662,57228	3 63681,06144	9,98292,84621,9583	10,54364,91481	2:24
	4,80052,99005	230,70329	221,80504	2,16848,2245	28,66370	
3	96140,58875,46066	3 49431,86899	3 63459,25640	9,98290,67773,7338	10,54336,25111	1:48
	4,80345,85102	230,42206	221,52359	2,16991,3527	28,64765	
2	96135,78529,60964	3 49201,44693	3 63237,73281	9,98288,50782,3811	10,54307,60346	1:12
	4,80638,69737	230,14136	221,24267	2,17134,4954	28,63164	
1	96130,97890,91227	3 48971,30557	3 63016,49014	9,98286,33647,8857	10,54278,97182	0:36
	4,80931,52908	229,86119	220,96229	2,17277,6522	28,61563	
0	96126,16959,38319	3 48741,44438	3 62795,52785	9,98284,16370,2335	10,54250,35619	0: 0
	4,81224,34614	229,58153	220,68241	2,17420,8236	28,59965	

GRAD. 74.

16. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
0	27563,73558,16999	28674,53858	1 04029,94359	9,44033,80750,8536	9,45749,64381	0: 0
	16,77676,16626	18,88929	5,20818	26,42544,0597	28,59965	
1	27580,51234,33625	28693,42787	1 04035,15177	9,44060,23294,9133	9,45778,24346	0:36
	16,77592,15121	18,89120	5,21187	26,40804,9200	28,58368	
2	27597,28826,48746	28712,31907	1 04040,36364	9,44086,64099,8333	9,45806,82714	1:12
	16,77508,08506	18,89308	5,21556	26,39067,8941	28,56776	
3	27614,06334,57252	28731,21215	1 04045,57920	9,44113,03167,7274	9,45835,39490	1:48
	16,77423,96782	18,89498	5,21926	26,37332,9778	28,55183	
4	27630,83758,54034	28750,10713	1 04050,79846	9,44139,40500,7052	9,45863,94673	2:24
	16,77339,79947	18,89687	5,22295	26,35600,1676	28,53594	
5	27647,61098,33981	28769,00400	1 04056,02141	9,44165,76100,8728	9,45892,48267	3: 0
	16,77255,58003	18,89878	5,22664	26,33869,4591	28,52006	
6	27664,38353,91984	28787,90278	1 04061,24805	9,44192,09970,3319	9,45921,00273	3:36
	16,77171,30950	18,90067	5,23034	26,32140,8486	28,50421	
7	27681,15525,22934	28806,80345	1 04066,47839	9,44218,42111,1805	9,45949,50694	4:12
	16,77086,98788	18,90257	5,23404	26,30414,3323	28,48838	
8	27697,92612,21722	28825,70602	1 04071,71243	9,44244,72525,5128	9,45977,99532	4:48
	16,77002,61518	18,90448	5,23773	26,28689,9060	28,47256	
9	27714,69614,83240	28844,61050	1 04076,95016	9,44271,01215,4188	9,46006,46788	5:24
	16,76918,19138	18,90638	5,24143	26,26967,5660	28,45678	
10	27731,46533,02378	28863,51688	1 04082,19159	9,44297,28182,9848	9,46034,92466	6: 0
	16,76833,71651	18,90828	5,24513	26,25247,3084	28,44101	
11	27748,23366,74029	28882,42516	1 04087,43672	9,44323,53430,2932	9,46063,36567	6:36
	16,76749,19055	18,91019	5,24883	26,23529,1293	28,42525	
12	27765,00115,93084	28901,33535	1 04092,68555	9,44349,76959,4225	9,46091,79092	7:12
	16,76664,61352	18,91210	5,25253	26,21813,0248	28,40954	
13	27781,76780,54436	28920,24745	1 04097,93808	9,44375,98772,4473	9,46120,20046	7:48
	16,76579,98542	18,91400	5,25623	26,20098,9909	28,39382	
14	27798,53360,52978	28939,16145	1 04103,19431	9,44402,18871,4382	9,46148,59428	8:24
	16,76495,30625	18,91592	5,25993	26,18387,0241	28,37814	
15	27815,29855,83603	28958,07737	1 04108,45424	9,44428,37258,4623	9,46176,97242	9: 0
	16,76410,57600	18,91783	5,26364	26,16677,1204	28,36247	
16	27832,06266,41203	28976,99520	1 04113,71788	9,44454,53935,5827	9,46205,33489	9:36
	16,76325,79469	18,91975	5,26734	26,14969,2757	28,34683	
17	27848,82592,20672	28995,91495	1 04118,98522	9,44480,68904,8584	9,46233,68172	10:12
	16,76240,96231	18,92165	5,27105	26,13263,4867	28,33120	
18	27865,58833,16903	29014,83660	1 04124,25627	9,44506,82168,3451	9,46262,01292	10:48
	16,76156,07888	18,92358	5,27475	26,11559,7490	28,31560	
19	27882,34989,24791	29033,76018	1 04129,53102	9,44532,93728,0941	9,46290,32852	11:24
	16,76071,14438	18,92549	5,27846	26,09858,0594	28,30002	
20	27899,11060,39229	29052,68567	1 04134,80948	9,44559,03586,1535	9,46318,62854	12: 0
	16,75986,15884	18,92742	5,28216	26,08158,4135	28,28446	
21	27915,87046,55113	29071,61309	1 04140,09164	9,44585,11744,5670	9,46346,91300	12:36
	16,75901,12222	18,92933	5,28588	26,06460,8081	28,26891	
22	27932,62947,67335	29090,54242	1 04145,37752	9,44611,18205,3751	9,46375,18191	13:12
	16,75816,03458	18,93125	5,28958	26,04765,2390	28,25340	
23	27949,38763,70793	29109,47367	1 04150,66710	9,44637,22970,6141	9,46403,43531	13:48
	16,75730,89587	18,93318	5,29330	26,03071,7026	28,23789	
24	27966,14494,60380	29128,40685	1 04155,96040	9,44663,26042,3167	9,46431,67320	14:24
	16,75645,70612	18,93511	5,29700	26,01380,1952	28,22242	
25	27982,90140,30992	29147,34196	1 04161,25740	9,44689,27422,5119	9,46459,89562	15: 0
	16,75560,46533	18,93703	5,30072	25,99690,7129	28,20695	
26	27999,65700,77525	29166,27899	1 04166,55812	9,44715,27113,2248	9,46488,10257	15:36
	16,75475,17350	18,93896	5,30443	25,98003,2520	28,19152	
27	28016,41175,94875	29185,21795	1 04171,86255	9,44741,25116,4768	9,46516,29409	16:12
	16,75389,83062	18,94089	5,30814	25,96317,8089	28,17609	
28	28033,16565,77937	29204,15884	1 04177,17069	9,44767,21434,2857	9,46544,47018	16:48
	16,75304,43673	18,94282	5,31186	25,94634,3798	28,16070	
29	28049,91870,21610	29223,10166	1 04182,48255	9,44793,16068,6655	9,46572,63088	17:24
	16,75218,99178	18,94475	5,31558	25,92952,9609	28,14532	
30	28066,67089,20788	29242,04641	1 04187,79813	9,44819,09021,6264	9,46600,77620	18: 0
	16,75133,49581	18,94669	5,31929	25,91273,5486	28,12997	
31	28083,42222,70369	29260,99310	1 04193,11742	9,44845,00295,1750	9,46628,90617	18:36
	16,75047,94882	18,94862	5,32300	25,89596,1393	28,11462	
32	28100,17270,65251	29279,94172	1 04198,44042	9,44870,89891,3143	9,46657,02079	19:12
	16,74962,35080	18,95055	5,32673	25,87920,7291	28,09931	
33	28116,92233,00331	29298,89227	1 04203,76715	9,44896,77812,0434	9,46685,12010	19:48
	16,74876,70175	18,95250	5,33045	25,86247,3144	28,08401	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
100	96126,16959,38319	3 48741,44438	3 62795,52785	9,98284,16370,2335	10,54250,35619	60: 0
	4,81224,34614	229,58153	220,68241	2,17420,8236	28,59965	
99	96121,35735,03705	3 48511,86285	3 62574,84544	9,98281,98949,4099	10,54221,75654	59:24
	4,81517,14853	229,30242	220,40308	2,17564,0090	28,58368	
98	96116,54217,88852	3 48282,56043	3 62354,44236	9,98279,81385,4009	10,54193,17286	58:48
	4,81809,93626	229,02381	220,12425	2,17707,2090	28,56776	
97	96111,72407,95226	3 48053,53662	3 62134,31811	9,98277,63678,1919	10,54164,60510	58:12
	4,82102,70932	228,74573	219,84595	2,17850,4233	28,55183	
96	96106,90305,24294	3 47824,79089	3 61914,47216	9,98275,45827,7686	10,54136,05327	57:36
	4,82395,46769	228,46817	219,56818	2,17993,6519	28,53594	
95	96102,07909,77525	3 47596,32272	3 61694,90398	9,98273,27834,1167	10,54107,51733	57: 0
	4,82688,21135	228,19113	219,29091	2,18136,8950	28,52006	
94	96097,25221,56390	3 47368,13159	3 61475,61307	9,98271,09697,2217	10,54078,99727	56:24
	4,82980,94033	227,91461	219,01417	2,18280,1523	28,50421	
93	96092,42240,62357	3 47140,21698	3 61256,59890	9,98268,91417,0694	10,54050,49306	55:48
	4,83273,65458	227,63859	218,73795	2,18423,4242	28,48838	
92	96087,58966,96899	3 46912,57839	3 61037,86095	9,98266,72993,6452	10,54022,00468	55:12
	4,83566,35412	227,36311	218,46223	2,18566,7104	28,47256	
91	96082,75400,61487	3 46685,21528	3 60819,39872	9,98264,54426,9348	10,53993,53212	54:36
	4,83859,03893	227,08813	218,18703	2,18710,0111	28,45678	
90	96077,91541,57594	3 46458,12715	3 60601,21169	9,98262,35716,9237	10,53965,07534	54: 0
	4,84151,70899	226,81365	217,91235	2,18853,3261	28,44101	
89	96073,07389,86695	3 46231,31350	3 60383,29934	9,98260,16863,5976	10,53936,63433	53:24
	4,84444,36431	226,53971	217,63817	2,18996,6557	28,42525	
88	96068,22945,50264	3 46004,77379	3 60165,66117	9,98257,97866,9419	10,53908,20908	52:48
	4,84737,00487	226,26625	217,36450	2,19139,9996	28,40954	
87	96063,38208,49777	3 45778,50754	3 59948,29667	9,98255,78726,9423	10,53879,79954	52:12
	4,85029,63066	225,99332	217,09135	2,19283,3582	28,39382	
86	96058,53178,86711	3 45552,51422	3 59731,20532	9,98253,59443,5841	10,53851,40572	51:36
	4,85322,24169	225,72089	216,81870	2,19426,7310	28,37814	
85	96053,67856,62542	3 45326,79333	3 59514,38662	9,98251,40016,8531	10,53823,02758	51: 0
	4,85614,83792	225,44897	216,54655	2,19570,1184	28,36247	
84	96048,82241,78750	3 45101,34436	3 59297,84007	9,98249,20446,7347	10,53794,66511	50:24
	4,85907,41937	225,17754	216,27491	2,19713,5204	28,34683	
83	96043,96334,36813	3 44876,16682	3 59081,56516	9,98247,00733,2143	10,53766,31828	49:48
	4,86199,98601	224,90663	216,00377	2,19856,9368	28,33120	
82	96039,10134,38212	3 44651,26019	3 58865,56139	9,98244,80876,2775	10,53737,98708	49:12
	4,86492,53784	224,63622	215,73315	2,20000,3678	28,31560	
81	96034,23641,84428	3 44426,62397	3 58649,82824	9,98242,60875,9097	10,53709,67148	48:36
	4,86785,07485	224,36630	215,46300	2,20143,8132	28,30002	
80	96029,36856,76943	3 44202,25767	3 58434,36524	9,98240,40732,0965	10,53681,37146	48: 0
	4,87077,59704	224,09689	215,19338	2,20287,2733	28,28446	
79	96024,49779,17239	3 43978,16078	3 58219,17186	9,98238,20444,8232	10,53653,08700	47:24
	4,87370,10438	223,82798	214,92424	2,20430,7478	28,26891	
78	96019,62409,06801	3 43754,33280	3 58004,24762	9,98236,00014,0754	10,53624,81809	46:48
	4,87662,59688	223,55956	214,65560	2,20574,2370	28,25340	
77	96014,74746,47113	3 43530,77324	3 57789,59202	9,98233,79439,8384	10,53596,56469	46:12
	4,87955,07453	223,29164	214,38745	2,20717,7407	28,23789	
76	96009,86791,39660	3 43307,48160	3 57575,20457	9,98231,58722,0977	10,53568,32680	45:36
	4,88247,53731	223,02422	214,11982	2,20861,2590	28,22242	
75	96004,98543,85929	3 43084,45738	3 57361,08475	9,98229,37860,8387	10,53540,10438	45: 0
	4,88539,98522	222,75728	213,85265	2,21004,7919	28,20695	
74	96000,10003,87407	3 42861,70010	3 57147,23210	9,98227,16856,0468	10,53511,89743	44:24
	4,88832,41825	222,49084	213,58600	2,21148,3395	28,19152	
73	95995,21171,45582	3 42639,20926	3 56933,64610	9,98224,95707,7073	10,53483,70591	43:48
	4,89124,83638	222,22490	213,31982	2,21291,9015	28,17609	
72	95990,32046,61944	3 42416,98436	3 56720,32628	9,98222,74415,8058	10,53455,52982	43:12
	4,89417,23962	221,95944	213,05415	2,21435,4784	28,16070	
71	95985,42629,37982	3 42195,02492	3 56507,27213	9,98220,52980,3274	10,53427,36912	42:36
	4,89709,62795	221,69446	212,78895	2,21579,0697	28,14532	
70	95980,52919,75187	3 41973,33046	3 56294,48318	9,98218,31401,2577	10,53399,22380	42: 0
	4,90002,00136	221,42999	212,52425	2,21722,6758	28,12997	
69	95975,62917,75051	3 41751,90047	3 56081,95893	9,98216,09678,5819	10,53371,09383	41:24
	4,90294,35984	221,16599	212,26003	2,21866,2965	28,11462	
68	95970,72623,39067	3 41530,73448	3 55869,69890	9,98213,87812,2854	10,53342,97921	40:48
	4,90586,70340	220,90248	211,99630	2,22009,9320	28,09931	
67	95965,82036,68727	3 41309,83200	3 55657,70260	9,98211,65802,3534	10,53314,87990	40:12
	4,90879,03199	220,63946	211,73305	2,22153,5820	28,08401	

GRAD. 73.

16. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	28116,92233,00331	29298,89227	1 04203,76715	9,44896,77812,0434	9,46685,12010	19:48
	16,74876,70175	18,95250	5,33045	25,86247,3144	28,08401	
34	28133,67109,70506	29317,84477	1 04209,09760	9,44922,64059,3578	9,46713,20411	20:24
	16,74791,00169	18,95444	5,33416	25,84575,8917	28,06873	
35	28150,41900,70675	29336,79921	1 04214,43176	9,44948,48635,2495	9,46741,27284	21: 0
	16,74705,25062	18,95637	5,33789	25,82906,4571	28,05347	
36	28167,16605,95737	29355,75558	1 04219,76965	9,44974,31541,7066	9,46769,32631	21:36
	16,74619,44851	18,95832	5,34161	25,81239,0072	28,03824	
37	28183,91225,40588	29374,71390	1 04225,11126	9,45000,12780,7138	9,46797,36455	22:12
	16,74533,59541	18,96027	5,34533	25,79573,5381	28,02302	
38	28200,65759,00129	29393,67417	1 04230,45659	9,45025,92354,2519	9,46825,38757	22:48
	16,74447,69130	18,96221	5,34906	25,77910,0463	28,00782	
39	28217,40206,69259	29412,63638	1 04235,80565	9,45051,70264,2982	9,46853,39539	23:24
	16,74361,73617	18,96415	5,35278	25,76248,5282	27,99264	
40	28234,14568,42876	29431,60053	1 04241,15843	9,45077,46512,8264	9,46881,38803	24: 0
	16,74275,73005	18,96611	5,35650	25,74588,9802	27,97749	
41	28250,88844,15881	29450,56664	1 04246,51493	9,45103,21101,8066	9,46909,36552	24:36
	16,74189,67292	18,96805	5,36023	25,72931,3987	27,96234	
42	28267,63033,83173	29469,53469	1 04251,87516	9,45128,94033,2053	9,46937,32786	25:12
	16,74103,56480	18,97001	5,36396	25,71275,7800	27,94723	
43	28284,37137,39653	29488,50470	1 04257,23912	9,45154,65308,9853	9,46965,27509	25:48
	16,74017,40567	18,97196	5,36769	25,69622,1206	27,93213	
44	28301,11154,80220	29507,47666	1 04262,60681	9,45180,34931,1059	9,46993,20722	26:24
	16,73931,19556	18,97391	5,37142	25,67970,4169	27,91705	
45	28317,85085,99776	29526,45057	1 04267,97823	9,45206,02901,5228	9,47021,12427	27: 0
	16,73844,93445	18,97587	5,37514	25,66320,6653	27,90199	
46	28334,58930,93221	29545,42644	1 04273,35337	9,45231,69222,1881	9,47049,02626	27:36
	16,73758,62236	18,97782	5,37888	25,64672,8624	27,88696	
47	28351,32689,55457	29564,40426	1 04278,73225	9,45257,33895,0505	9,47076,91322	28:12
	16,73672,25927	18,97979	5,38261	25,63027,0045	27,87193	
48	28368,06361,81384	29583,38405	1 04284,11486	9,45282,96922,0550	9,47104,78515	28:48
	16,73585,84522	18,98174	5,38634	25,61383,0880	27,85693	
49	28384,79947,65906	29602,36579	1 04289,50120	9,45308,58305,1430	9,47132,64208	29:24
	16,73499,38017	18,98371	5,39007	25,59741,1095	27,84195	
50	28401,53447,03923	29621,34950	1 04294,89127	9,45334,18046,2525	9,47160,48403	30: 0
	16,73412,86414	18,98566	5,39381	25,58101,0655	27,82699	
51	28418,26859,90337	29640,33516	1 04300,28508	9,45359,76147,3180	9,47188,31102	30:36
	16,73326,29716	18,98764	5,39755	25,56462,9523	27,81205	
52	28435,00186,20053	29659,32280	1 04305,68263	9,45385,32610,2703	9,47216,12307	31:12
	16,73239,67918	18,98960	5,40128	25,54826,7666	27,79712	
53	28451,73425,87971	29678,31240	1 04311,08391	9,45410,87437,0369	9,47243,92019	31:48
	16,73153,01024	18,99156	5,40502	25,53192,5048	27,78223	
54	28468,46578,88995	29697,30396	1 04316,48893	9,45436,40629,5417	9,47271,70242	32:24
	16,73066,29034	18,99354	5,40876	25,51560,1633	27,76733	
55	28485,19645,18029	29716,29750	1 04321,89769	9,45461,92189,7050	9,47299,46975	33: 0
	16,72979,51947	18,99550	5,41249	25,49929,7389	27,75248	
56	28501,92624,69976	29735,29300	1 04327,31018	9,45487,42119,4439	9,47327,22223	33:36
	16,72892,69764	18,99748	5,41624	25,48301,2279	27,73763	
57	28518,65517,39740	29754,29048	1 04332,72642	9,45512,90420,6718	9,47354,95986	34:12
	16,72805,82484	18,99945	5,41998	25,46674,6268	27,72280	
58	28535,38323,22224	29773,28993	1 04338,14640	9,45538,37095,2986	9,47382,68266	34:48
	16,72718,90110	19,00143	5,42371	25,45049,9324	27,70799	
59	28552,11042,12334	29792,29136	1 04343,57011	9,45563,82145,2310	9,47410,39065	35:24
	16,72631,92640	19,00340	5,42747	25,43427,1410	27,69321	
60	28568,83674,04974	29811,29476	1 04348,99758	9,45589,25572,3720	9,47438,08386	36: 0
	16,72544,90074	19,00538	5,43120	25,41806,2493	27,67844	
61	28585,56218,95048	29830,30014	1 04354,42878	9,45614,67378,6213	9,47465,76230	36:36
	16,72457,82414	19,00735	5,43495	25,40187,2537	27,66369	
62	28602,28676,77462	29849,30749	1 04359,86373	9,45640,07565,8750	9,47493,42599	37:12
	16,72370,69659	19,00934	5,43870	25,38570,1510	27,64896	
63	28619,01047,47121	29868,31683	1 04365,30243	9,45665,46136,0260	9,47521,07495	37:48
	16,72283,51810	19,01132	5,44244	25,36954,9376	27,63425	
64	28635,73330,98931	29887,32815	1 04370,74487	9,45690,83090,9636	9,47548,70920	38:24
	16,72196,28867	19,01331	5,44619	25,35341,6103	27,61956	
65	28652,45527,27798	29906,34146	1 04376,19106	9,45716,18432,5739	9,47576,32876	39: 0
	16,72109,00830	19,01529	5,44993	25,33730,1655	27,60488	
66	28669,17636,28628	29925,35675	1 04381,64099	9,45741,52162,7394	9,47603,93364	39:36
	16,72021,67700	19,01727	5,45369	25,32120,5998	27,59023	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	95965,82036,68727	3 41309,83200	3 55657,70260	9,98211,65802,3534	10,53314,87990	40:12
	4,90879,03199	220,63946	211,73305	2,22153,5820	28,08401	
66	95960,91157,65528	3 41089,19254	3 55445,96955	9,98209,43648,7714	10,53286,79589	39:36
	4,91171,34565	220,37691	211,47029	2,22297,2468	28,06873	
65	95955,99986,30963	3 40868,81563	3 55234,49926	9,98207,21351,5246	10,53258,72716	39: 0
	4,91463,64434	220,11486	211,20800	2,22440,9263	28,05347	
64	95951,08522,66529	3 40648,70077	3 55023,29126	9,98204,98910,5983	10,53230,67369	38:24
	4,91755,92806	219,85327	210,94619	2,22584,6204	28,03824	
63	95946,16766,73723	3 40428,84750	3 54812,34507	9,98202,76325,9779	10,53202,63545	37:48
	4,92048,19680	219,59217	210,68488	2,22728,3295	28,02302	
62	95941,24718,54043	3 40209,25533	3 54601,66019	9,98200,53597,6484	10,53174,61243	37:12
	4,92340,45055	219,33155	210,42402	2,22872,0531	28,00782	
61	95936,32378,08988	3 39989,92378	3 54391,23617	9,98198,30725,5953	10,53146,60461	36:36
	4,92632,68930	219,07140	210,16366	2,23015,7915	27,99264	
60	95931,39745,40058	3 39770,85238	3 54181,07251	9,98196,07709,8038	10,53118,61197	36: 0
	4,92924,91306	218,81173	209,90376	2,23159,5448	27,97749	
59	95926,46820,48752	3 39552,04065	3 53971,16875	9,98193,84550,2590	10,53090,63448	35:24
	4,93217,12178	218,55254	209,64434	2,23303,3127	27,96234	
58	95921,53603,36574	3 39333,48811	3 53761,52441	9,98191,61246,9463	10,53062,67214	34:48
	4,93509,31549	218,29381	209,38539	2,23447,0955	27,94723	
57	95916,60094,05025	3 39115,19430	3 53552,13902	9,98189,37799,8508	10,53034,72491	34:12
	4,93801,49416	218,03557	209,12693	2,23590,8930	27,93213	
56	95911,66292,55609	3 38897,15873	3 53343,01209	9,98187,14208,9578	10,53006,79278	33:36
	4,94093,65779	217,77779	208,86891	2,23734,7053	27,91705	
55	95906,72198,89830	3 38679,38094	3 53134,14318	9,98184,90474,2525	10,52978,87573	33: 0
	4,94385,80638	217,52048	208,61139	2,23878,5326	27,90199	
54	95901,77813,09192	3 38461,86046	3 52925,53179	9,98182,66595,7199	10,52950,97374	32:24
	4,94677,93990	217,26364	208,35432	2,24022,3746	27,88696	
53	95896,83135,15202	3 38244,59682	3 52717,17747	9,98180,42573,3453	10,52923,08678	31:48
	4,94970,05835	217,00727	208,09773	2,24166,2314	27,87193	
52	95891,88165,09367	3 38027,58955	3 52509,07974	9,98178,18407,1139	10,52895,21485	31:12
	4,95262,16173	216,75136	207,84160	2,24310,1031	27,85693	
51	95886,92902,93194	3 37810,83819	3 52301,23814	9,98175,94097,0108	10,52867,35792	30:36
	4,95554,25001	216,49593	207,58593	2,24453,9896	27,84195	
50	95881,97348,68193	3 37594,34226	3 52093,65221	9,98173,69643,0212	10,52839,51597	30: 0
	4,95846,32321	216,24095	207,33074	2,24597,8911	27,82699	
49	95877,01502,35872	3 37378,10131	3 51886,32147	9,98171,45045,1301	10,52811,68898	29:24
	4,96138,38129	215,98645	207,07599	2,24741,8074	27,81205	
48	95872,05363,97743	3 37162,11486	3 51679,24548	9,98169,20303,3227	10,52783,87693	28:48
	4,96430,42427	215,73239	206,82172	2,24885,7387	27,79712	
47	95867,08933,55316	3 36946,38247	3 51472,42376	9,98166,95417,5840	10,52756,07981	28:12
	4,96722,45213	215,47880	206,56791	2,25029,6847	27,78223	
46	95862,12211,10103	3 36730,90367	3 51265,85585	9,98164,70387,8993	10,52728,29758	27:36
	4,97014,46484	215,22568	206,31456	2,25173,6458	27,76733	
45	95857,15196,63619	3 36515,67799	3 51059,54129	9,98162,45214,2535	10,52700,53025	27: 0
	4,97306,46243	214,97301	206,06166	2,25317,6217	27,75248	
44	95852,17890,17376	3 36300,70498	3 50853,47963	9,98160,19896,6318	10,52672,77777	26:24
	4,97598,44486	214,72080	205,80922	2,25461,6127	27,73763	
43	95847,20291,72890	3 36085,98418	3 50647,67041	9,98157,94435,0191	10,52645,04014	25:48
	4,97890,41214	214,46904	205,55724	2,25605,6185	27,72280	
42	95842,22401,31676	3 35871,51514	3 50442,11317	9,98155,68829,4006	10,52617,31734	25:12
	4,98182,36425	214,21774	205,30572	2,25749,6394	27,70799	
41	95837,24218,95251	3 35657,29740	3 50236,80745	9,98153,43079,7612	10,52589,60935	24:36
	4,98474,30118	213,96690	205,05464	2,25893,6751	27,69321	
40	95832,25744,65133	3 35443,33050	3 50031,75281	9,98151,17186,0861	10,52561,91614	24: 0
	4,98766,22293	213,71651	204,80403	2,26037,7259	27,67844	
39	95827,26978,42840	3 35229,61399	3 49826,94878	9,98148,91148,3602	10,52534,23770	23:24
	4,99058,12948	213,46657	204,55386	2,26181,7917	27,66369	
38	95822,27920,29892	3 35016,14742	3 49622,39492	9,98146,64966,5685	10,52506,57401	22:48
	4,99350,02084	213,21708	204,30414	2,26325,8725	27,64896	
37	95817,28570,27808	3 34802,93034	3 49418,09078	9,98144,38640,6960	10,52478,92505	22:12
	4,99641,89698	212,96805	204,05488	2,26469,9683	27,63425	
36	95812,28928,38110	3 34589,96229	3 49214,03590	9,98142,12170,7277	10,52451,29080	21:36
	4,99933,75791	212,71945	203,80607	2,26614,0791	27,61956	
35	95807,28994,62319	3 34377,24284	3 49010,22983	9,98139,85556,6486	10,52423,67124	21: 0
	5,00225,60360	212,47132	203,55769	2,26758,2049	27,60488	
34	95802,28769,01959	3 34164,77152	3 48806,67214	9,98137,58798,4437	10,52396,06636	20:24
	5,00517,43405	212,22362	203,30978	2,26902,3459	27,59023	

GRAD. 73.

16. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	28685,89657,96328	29944,37402	1 04387,09468	9,45766,84283,3392	9,47631,52387	40:12
	16,71934,29476	19,01927	5,45744	25,30512,9100	27,57560	
68	28702,61592,25804	29963,39329	1 04392,55212	9,45792,14796,2492	9,47659,09947	40:48
	16,71846,86159	19,02125	5,46118	25,28907,0926	27,56097	
69	28719,33439,11963	29982,41454	1 04398,01330	9,45817,43703,3418	9,47686,66044	41:24
	16,71759,37749	19,02324	5,46494	25,27303,1442	27,54638	
70	28736,05198,49712	30001,43778	1 04403,47824	9,45842,71006,4860	9,47714,20682	42: 0
	16,71671,84247	19,02524	5,46869	25,25701,0616	27,53181	
71	28752,76870,33959	30020,46302	1 04408,94693	9,45867,96707,5476	9,47741,73863	42:36
	16,71584,25654	19,02723	5,47245	25,24100,8412	27,51724	
72	28769,48454,59613	30039,49025	1 04414,41938	9,45893,20808,3888	9,47769,25587	43:12
	16,71496,61967	19,02922	5,47620	25,22502,4799	27,50270	
73	28786,19951,21580	30058,51947	1 04419,89558	9,45918,43310,8687	9,47796,75857	43:48
	16,71408,93189	19,03122	5,47996	25,20905,9743	27,48817	
74	28802,91360,14769	30077,55069	1 04425,37554	9,45943,64216,8430	9,47824,24674	44:24
	16,71321,19320	19,03322	5,48371	25,19311,3210	27,47368	
75	28819,62681,34089	30096,58391	1 04430,85925	9,45968,83528,1640	9,47851,72042	45: 0
	16,71233,40360	19,03522	5,48747	25,17718,5166	27,45919	
76	28836,33914,74449	30115,61913	1 04436,34672	9,45994,01246,6806	9,47879,17961	45:36
	16,71145,56309	19,03722	5,49123	25,16127,5581	27,44472	
77	28853,05060,30758	30134,65635	1 04441,83795	9,46019,17374,2387	9,47906,62433	46:12
	16,71057,67166	19,03923	5,49498	25,14538,4420	27,43027	
78	28869,76117,97924	30153,69558	1 04447,33293	9,46044,31912,6807	9,47934,05460	46:48
	16,70969,72935	19,04122	5,49875	25,12951,1648	27,41584	
79	28886,47087,70859	30172,73680	1 04452,83168	9,46069,44863,8455	9,47961,47044	47:24
	16,70881,73613	19,04324	5,50251	25,11365,7237	27,40144	
80	28903,17969,44472	30191,78004	1 04458,33419	9,46094,56229,5692	9,47988,87188	48: 0
	16,70793,69200	19,04524	5,50627	25,09782,1149	27,38704	
81	28919,88763,13672	30210,82528	1 04463,84046	9,46119,66011,6841	9,48016,25892	48:36
	16,70705,59699	19,04725	5,51004	25,08200,3356	27,37266	
82	28936,59468,73371	30229,87253	1 04469,35050	9,46144,74212,0197	9,48043,63158	49:12
	16,70617,45108	19,04925	5,51379	25,06620,3821	27,35831	
83	28953,30086,18479	30248,92178	1 04474,86429	9,46169,80832,4018	9,48070,98989	49:48
	16,70529,25428	19,05127	5,51757	25,05042,2515	27,34398	
84	28970,00615,43907	30267,97305	1 04480,38186	9,46194,85874,6533	9,48098,33387	50:24
	16,70441,00660	19,05329	5,52132	25,03465,9404	27,32965	
85	28986,71056,44567	30287,02634	1 04485,90318	9,46219,89340,5937	9,48125,66352	51: 0
	16,70352,70803	19,05529	5,52510	25,01891,4454	27,31535	
86	29003,41409,15370	30306,08163	1 04491,42828	9,46244,91232,0391	9,48152,97887	51:36
	16,70264,35858	19,05732	5,52886	25,00318,7636	27,30107	
87	29020,11673,51228	30325,13895	1 04496,95714	9,46269,91550,8027	9,48180,27994	52:12
	16,70175,95825	19,05933	5,53263	24,98747,8916	27,28681	
88	29036,81849,47053	30344,19828	1 04502,48977	9,46294,90298,6943	9,48207,56675	52:48
	16,70087,50704	19,06135	5,53641	24,97178,8261	27,27256	
89	29053,51936,97757	30363,25963	1 04508,02618	9,46319,87477,5204	9,48234,83931	53:24
	16,69999,00495	19,06337	5,54017	24,95611,5641	27,25834	
90	29070,21935,98252	30382,32300	1 04513,56635	9,46344,83089,0845	9,48262,09765	54: 0
	16,69910,45201	19,06539	5,54394	24,94046,1021	27,24412	
91	29086,91846,43453	30401,38839	1 04519,11029	9,46369,77135,1866	9,48289,34177	54:36
	16,69821,84819	19,06742	5,54772	24,92482,4372	27,22993	
92	29103,61668,28272	30420,45581	1 04524,65801	9,46394,69617,6238	9,48316,57170	55:12
	16,69733,19350	19,06944	5,55149	24,90920,5661	27,21576	
93	29120,31401,47622	30439,52525	1 04530,20950	9,46419,60538,1899	9,48343,78746	55:48
	16,69644,48795	19,07146	5,55526	24,89360,4856	27,20160	
94	29137,01045,96417	30458,59671	1 04535,76476	9,46444,49898,6755	9,48370,98906	56:24
	16,69555,73154	19,07350	5,55904	24,87802,1925	27,18747	
95	29153,70601,69571	30477,67021	1 04541,32380	9,46469,37700,8680	9,48398,17653	57: 0
	16,69466,92428	19,07552	5,56281	24,86245,6837	27,17335	
96	29170,40068,61999	30496,74573	1 04546,88661	9,46494,23946,5517	9,48425,34988	57:36
	16,69378,06615	19,07755	5,56659	24,84690,9561	27,15924	
97	29187,09446,68614	30515,82328	1 04552,45320	9,46519,08637,5078	9,48452,50912	58:12
	16,69289,15718	19,07959	5,57037	24,83138,0063	27,14517	
98	29203,78735,84332	30534,90287	1 04558,02357	9,46543,91775,5141	9,48479,65429	58:48
	16,69200,19736	19,08162	5,57415	24,81586,8314	27,13109	
99	29220,47936,04068	30553,98449	1 04563,59772	9,46568,73362,3455	9,48506,78538	59:24
	16,69111,18669	19,08366	5,57793	24,80037,4282	27,11705	
100	29237,17047,22737	30573,06815	1 04569,17565	9,46593,53399,7737	9,48533,90243	60: 0
	16,69022,12517	19,08569	5,58171	24,78489,7937	27,10302	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	95797,28251,58554	3 33952,54790	3 48603,36236	9,98135,31896,0978	10,52368,47613	19:48
	5,00809,24927	211,97637	203,06230	2,27046,5019	27,57560	
32	95792,27442,33627	3 33740,57153	3 48400,30006	9,98133,04849,5959	10,52340,90053	19:12
	5,01101,04921	211,72957	202,81527	2,27190,6729	27,56097	
31	95787,26341,28706	3 33528,84196	3 48197,48479	9,98130,77658,9230	10,52313,33956	18:36
	5,01392,83391	211,48321	202,56867	2,27334,8591	27,54638	
30	95782,24948,45315	3 33317,35875	3 47994,91612	9,98128,50324,0639	10,52285,79318	18: 0
	5,01684,60332	211,23730	202,32254	2,27479,0603	27,53181	
29	95777,23263,84983	3 33106,12145	3 47792,59358	9,98126,22845,0036	10,52258,26137	17:24
	5,01976,35746	210,99181	202,07683	2,27623,2766	27,51724	
28	95772,21287,49237	3 32895,12964	3 47590,51675	9,98123,95221,7270	10,52230,74413	16:48
	5,02268,09630	210,74679	201,83157	2,27767,5081	27,50270	
27	95767,19019,39607	3 32684,38285	3 47388,68518	9,98121,67454,2189	10,52203,24143	16:12
	5,02559,81985	210,50218	201,58674	2,27911,7547	27,48817	
26	95762,16459,57622	3 32473,88067	3 47187,09844	9,98119,39542,4642	10,52175,75326	15:36
	5,02851,52808	210,25803	201,34235	2,28056,0165	27,47368	
25	95757,13608,04814	3 32263,62264	3 46985,75609	9,98117,11486,4477	10,52148,27958	15: 0
	5,03143,22099	210,01431	201,09841	2,28200,2933	27,45919	
24	95752,10464,82715	3 32053,60833	3 46784,65768	9,98114,83286,1544	10,52120,82039	14:24
	5,03434,89858	209,77103	200,85489	2,28344,5854	27,44472	
23	95747,07029,92857	3 31843,83730	3 46583,80279	9,98112,54941,5690	10,52093,37567	13:48
	5,03726,56084	209,52818	200,61182	2,28488,8925	27,43027	
22	95742,03303,36773	3 31634,30912	3 46383,19097	9,98110,26452,6765	10,52065,94540	13:12
	5,04018,20775	209,28576	200,36917	2,28633,2150	27,41584	
21	95736,99285,15998	3 31425,02336	3 46182,82180	9,98107,97819,4615	10,52038,52956	12:36
	5,04309,83931	209,04379	200,12696	2,28777,5526	27,40144	
20	95731,94975,32067	3 31215,97957	3 45982,69484	9,98105,69041,9089	10,52011,12812	12: 0
	5,04601,45550	208,80223	199,88519	2,28921,9054	27,38704	
19	95726,90373,86517	3 31007,17734	3 45782,80965	9,98103,40120,0035	10,51983,74108	11:24
	5,04893,05632	208,56112	199,64383	2,29066,2734	27,37266	
18	95721,85480,80885	3 30798,61622	3 45583,16582	9,98101,11053,7301	10,51956,36842	10:48
	5,05184,64177	208,32042	199,40292	2,29210,6567	27,35831	
17	95716,80296,16708	3 30590,29580	3 45383,76290	9,98098,81843,0734	10,51929,01011	10:12
	5,05476,21182	208,08018	199,16243	2,29355,0552	27,34398	
16	95711,74819,95526	3 30382,21562	3 45184,60047	9,98096,52488,0182	10,51901,66613	9:36
	5,05767,76648	207,84033	198,92237	2,29499,4690	27,32965	
15	95706,69052,18878	3 30174,37529	3 44985,67810	9,98094,22988,5492	10,51874,33648	9: 0
	5,06059,30573	207,60094	198,68273	2,29643,8979	27,31535	
14	95701,62992,88305	3 29966,77435	3 44786,99537	9,98091,93344,6513	10,51847,02113	8:24
	5,06350,82956	207,36196	198,44353	2,29788,3422	27,30107	
13	95696,56642,05349	3 29759,41239	3 44588,55184	9,98089,63556,3091	10,51819,72006	7:48
	5,06642,33798	207,12341	198,20474	2,29932,8019	27,28681	
12	95691,49999,71551	3 29552,28898	3 44390,34710	9,98087,33623,5072	10,51792,43325	7:12
	5,06933,83095	206,88528	197,96639	2,30077,2767	27,27256	
11	95686,43065,88456	3 29345,40370	3 44192,38071	9,98085,03546,2305	10,51765,16069	6:36
	5,07225,30849	206,64757	197,72844	2,30221,7668	27,25834	
10	95681,35840,57607	3 29138,75613	3 43994,65227	9,98082,73324,4637	10,51737,90235	6: 0
	5,07516,77057	206,41029	197,49094	2,30366,2724	27,24412	
9	95676,28323,80550	3 28932,34584	3 43797,16133	9,98080,42958,1913	10,51710,65823	5:24
	5,07808,21720	206,17342	197,25383	2,30510,7932	27,22993	
8	95671,20515,58830	3 28726,17242	3 43599,90750	9,98078,12447,3981	10,51683,42830	4:48
	5,08099,64835	205,93699	197,01717	2,30655,3294	27,21576	
7	95666,12415,93995	3 28520,23543	3 43402,89033	9,98075,81792,0687	10,51656,21254	4:12
	5,08391,06403	205,70096	196,78091	2,30799,8809	27,20160	
6	95661,04024,87592	3 28314,53447	3 43206,10942	9,98073,50992,1878	10,51629,01094	3:36
	5,08682,46422	205,46536	196,54507	2,30944,4479	27,18747	
5	95655,95342,41170	3 28109,06911	3 43009,56435	9,98071,20047,7399	10,51601,82347	3: 0
	5,08973,84892	205,23017	196,30965	2,31089,0300	27,17335	
4	95650,86368,56278	3 27903,83894	3 42813,25470	9,98068,88958,7099	10,51574,65012	2:24
	5,09265,21811	204,99539	196,07465	2,31233,6278	27,15924	
3	95645,77103,34467	3 27698,84355	3 42617,18005	9,98066,57725,0821	10,51547,49088	1:48
	5,09556,57179	204,76104	195,84006	2,31378,2408	27,14517	
2	95640,67546,77288	3 27494,08251	3 42421,33999	9,98064,26346,8413	10,51520,34571	1:12
	5,09847,90995	204,52710	195,60589	2,31522,8692	27,13109	
1	95635,57698,86293	3 27289,55541	3 42225,73410	9,98061,94823,9721	10,51493,21462	0:36
	5,10139,23258	204,29356	195,37212	2,31667,5132	27,11705	
0	95630,47559,63035	3 27085,26185	3 42030,36198	9,98059,63156,4589	10,51466,09757	0: 0
	5,10430,53966	204,06045	195,13877	2,31812,1725	27,10302	

GRAD. 73.

17. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
0	29237,17047,22737	30573,06815	1 04569,17565	9,46593,53399,7737	9,48533,90243	0: 0
	16,69022,12517	19,08569	5,58171	24,78489,7937	27,10302	
1	29253,86069,35254	30592,15384	1 04574,75736	9,46618,31889,5674	9,48561,00545	0:36
	16,68933,01282	19,08773	5,58549	24,76943,9244	27,08901	
2	29270,55002,36536	30611,24157	1 04580,34285	9,46643,08833,4918	9,48588,09446	1:12
	16,68843,84962	19,08977	5,58927	24,75399,8175	27,07501	
3	29287,23846,21498	30630,33134	1 04585,93212	9,46667,84233,3093	9,48615,16947	1:48
	16,68754,63559	19,09181	5,59306	24,73857,4699	27,06104	
4	29303,92600,85057	30649,42315	1 04591,52518	9,46692,58090,7792	9,48642,23051	2:24
	16,68665,37073	19,09385	5,59684	24,72316,8785	27,04708	
5	29320,61266,22130	30668,51700	1 04597,12202	9,46717,30407,6577	9,48669,27759	3: 0
	16,68576,05504	19,09590	5,60063	24,70778,0399	27,03314	
6	29337,29842,27634	30687,61290	1 04602,72265	9,46742,01185,6976	9,48696,31073	3:36
	16,68486,68852	19,09795	5,60441	24,69240,9514	27,01921	
7	29353,98328,96486	30706,71085	1 04608,32706	9,46766,70426,6490	9,48723,32994	4:12
	16,68397,27117	19,09999	5,60820	24,67705,6097	27,00531	
8	29370,66726,23603	30725,81084	1 04613,93526	9,46791,38132,2587	9,48750,33525	4:48
	16,68307,80300	19,10204	5,61199	24,66172,0119	26,99142	
9	29387,35034,03903	30744,91288	1 04619,54725	9,46816,04304,2706	9,48777,32667	5:24
	16,68218,28401	19,10409	5,61578	24,64640,1548	26,97755	
10	29404,03252,32304	30764,01697	1 04625,16303	9,46840,68944,4254	9,48804,30422	6: 0
	16,68128,71421	19,10614	5,61957	24,63110,0353	26,96370	
11	29420,71381,03725	30783,12311	1 04630,78260	9,46865,32054,4607	9,48831,26792	6:36
	16,68039,09359	19,10819	5,62336	24,61581,6506	26,94986	
12	29437,39420,13084	30802,23130	1 04636,40596	9,46889,93636,1113	9,48858,21778	7:12
	16,67949,42215	19,11025	5,62716	24,60054,9973	26,93604	
13	29454,07369,55299	30821,34155	1 04642,03312	9,46914,53691,1086	9,48885,15382	7:48
	16,67859,69992	19,11231	5,63094	24,58530,0727	26,92224	
14	29470,75229,25291	30840,45386	1 04647,66406	9,46939,12221,1813	9,48912,07606	8:24
	16,67769,92688	19,11436	5,63474	24,57006,8737	26,90846	
15	29487,42999,17979	30859,56822	1 04653,29880	9,46963,69228,0550	9,48938,98452	9: 0
	16,67680,10302	19,11642	5,63854	24,55485,3970	26,89469	
16	29504,10679,28281	30878,68464	1 04658,93734	9,46988,24713,4520	9,48965,87921	9:36
	16,67590,22838	19,11848	5,64233	24,53965,6400	26,88095	
17	29520,78269,51119	30897,80312	1 04664,57967	9,47012,78679,0920	9,48992,76016	10:12
	16,67500,30293	19,12055	5,64613	24,52447,5993	26,86721	
18	29537,45769,81412	30916,92367	1 04670,22580	9,47037,31126,6913	9,49019,62737	10:48
	16,67410,32669	19,12261	5,64993	24,50931,2723	26,85350	
19	29554,13180,14081	30936,04628	1 04675,87573	9,47061,82057,9636	9,49046,48087	11:24
	16,67320,29966	19,12467	5,65372	24,49416,6558	26,83980	
20	29570,80500,44047	30955,17095	1 04681,52945	9,47086,31474,6194	9,49073,32067	12: 0
	16,67230,22183	19,12674	5,65753	24,47903,7466	26,82613	
21	29587,47730,66230	30974,29769	1 04687,18698	9,47110,79378,3660	9,49100,14680	12:36
	16,67140,09322	19,12881	5,66132	24,46392,5421	26,81246	
22	29604,14870,75552	30993,42650	1 04692,84830	9,47135,25770,9081	9,49126,95926	13:12
	16,67049,91383	19,13088	5,66513	24,44883,0392	26,79882	
23	29620,81920,66935	31012,55738	1 04698,51343	9,47159,70653,9473	9,49153,75808	13:48
	16,66959,68366	19,13294	5,66893	24,43375,2349	26,78518	
24	29637,48880,35301	31031,69032	1 04704,18236	9,47184,14029,1822	9,49180,54326	14:24
	16,66869,40270	19,13503	5,67274	24,41869,1262	26,77158	
25	29654,15749,75571	31050,82535	1 04709,85510	9,47208,55898,3084	9,49207,31484	15: 0
	16,66779,07097	19,13709	5,67654	24,40364,7102	26,75799	
26	29670,82528,82668	31069,96244	1 04715,53164	9,47232,96263,0186	9,49234,07283	15:36
	16,66688,68847	19,13917	5,68034	24,38861,9840	26,74440	
27	29687,49217,51515	31089,10161	1 04721,21198	9,47257,35125,0026	9,49260,81723	16:12
	16,66598,25520	19,14125	5,68415	24,37360,9446	26,73085	
28	29704,15815,77035	31108,24286	1 04726,89613	9,47281,72485,9472	9,49287,54808	16:48
	16,66507,77116	19,14333	5,68796	24,35861,5891	26,71731	
29	29720,82323,54151	31127,38619	1 04732,58409	9,47306,08347,5363	9,49314,26539	17:24
	16,66417,23635	19,14541	5,69177	24,34363,9145	26,70378	
30	29737,48740,77786	31146,53160	1 04738,27586	9,47330,42711,4508	9,49340,96917	18: 0
	16,66326,65079	19,14748	5,69558	24,32867,9181	26,69027	
31	29754,15067,42865	31165,67908	1 04743,97144	9,47354,75579,3689	9,49367,65944	18:36
	16,66236,01446	19,14958	5,69939	24,31373,5967	26,67678	
32	29770,81303,44311	31184,82866	1 04749,67083	9,47379,06952,9656	9,49394,33622	19:12
	16,66145,32737	19,15165	5,70320	24,29880,9475	26,66330	
33	29787,47448,77048	31203,98031	1 04755,37403	9,47403,36833,9131	9,49420,99952	19:48
	16,66054,58955	19,15375	5,70701	24,28389,9679	26,64985	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
100	95630,47559,63035	3 27085,26185	3 42030,36198	9,98059,63156,4589	10,51466,09757	60: 0
	5,10430,53966	204,06045	195,13877	2,31812,1725	27,10302	
99	95625,37129,09069	3 26881,20140	3 41835,22321	9,98057,31344,2864	10,51438,99455	59:24
	5,10721,83119	203,82774	194,90583	2,31956,8472	27,08901	
98	95620,26407,25950	3 26677,37366	3 41640,31738	9,98054,99387,4392	10,51411,90554	58:48
	5,11013,10718	203,59545	194,67330	2,32101,5374	27,07501	
97	95615,15394,15232	3 26473,77821	3 41445,64408	9,98052,67285,9018	10,51384,83053	58:12
	5,11304,36760	203,36356	194,44118	2,32246,2432	27,06104	
96	95610,04089,78472	3 26270,41465	3 41251,20290	9,98050,35039,6586	10,51357,76949	57:36
	5,11595,61243	203,13208	194,20947	2,32390,9643	27,04708	
95	95604,92494,17229	3 26067,28257	3 41056,99343	9,98048,02648,6943	10,51330,72241	57: 0
	5,11886,84169	202,90100	193,97817	2,32535,7009	27,03314	
94	95599,80607,33060	3 25864,38157	3 40863,01526	9,98045,70112,9934	10,51303,68927	56:24
	5,12178,05534	202,67035	193,74727	2,32680,4531	27,01921	
93	95594,68429,27526	3 25661,71122	3 40669,26799	9,98043,37432,5403	10,51276,67006	55:48
	5,12469,25341	202,44008	193,51677	2,32825,2208	27,00531	
92	95589,55960,02185	3 25459,27114	3 40475,75122	9,98041,04607,3195	10,51249,66475	55:12
	5,12760,43586	202,21023	193,28668	2,32970,0039	26,99142	
91	95584,43199,58599	3 25257,06091	3 40282,46454	9,98038,71637,3156	10,51222,67333	54:36
	5,13051,60269	201,98078	193,05700	2,33114,8027	26,97755	
90	95579,30147,98330	3 25055,08013	3 40089,40754	9,98036,38522,5129	10,51195,69578	54: 0
	5,13342,75389	201,75173	192,82772	2,33259,6169	26,96370	
89	95574,16805,22941	3 24853,32840	3 39896,57982	9,98034,05262,8960	10,51168,73208	53:24
	5,13633,88945	201,52308	192,59884	2,33404,4468	26,94986	
88	95569,03171,33996	3 24651,80532	3 39703,98098	9,98031,71858,4492	10,51141,78222	52:48
	5,13925,00937	201,29484	192,37035	2,33549,2921	26,93604	
87	95563,89246,33059	3 24450,51048	3 39511,61063	9,98029,38309,1571	10,51114,84618	52:12
	5,14216,11364	201,06699	192,14227	2,33694,1532	26,92224	
86	95558,75030,21695	3 24249,44349	3 39319,46836	9,98027,04615,0039	10,51087,92394	51:36
	5,14507,20223	200,83954	191,91459	2,33839,0296	26,90846	
85	95553,60523,01472	3 24048,60395	3 39127,55377	9,98024,70775,9743	10,51061,01548	51: 0
	5,14798,27516	200,61249	191,68731	2,33983,9219	26,89469	
84	95548,45724,73956	3 23847,99146	3 38935,86646	9,98022,36792,0524	10,51034,12079	50:24
	5,15089,33240	200,38584	191,46042	2,34128,8296	26,88095	
83	95543,30635,40716	3 23647,60562	3 38744,40604	9,98020,02663,2228	10,51007,23984	49:48
	5,15380,37395	200,15958	191,23392	2,34273,7530	26,86721	
82	95538,15255,03321	3 23447,44604	3 38553,17212	9,98017,68389,4698	10,50980,37263	49:12
	5,15671,39982	199,93372	191,00783	2,34418,6920	26,85350	
81	95532,99583,63339	3 23247,51232	3 38362,16429	9,98015,33970,7778	10,50953,51913	48:36
	5,15962,40995	199,70825	190,78213	2,34563,6468	26,83980	
80	95527,83621,22344	3 23047,80407	3 38171,38216	9,98012,99407,1310	10,50926,67933	48: 0
	5,16253,40439	199,48318	190,55681	2,34708,6171	26,82613	
79	95522,67367,81905	3 22848,32089	3 37980,82535	9,98010,64698,5139	10,50899,85320	47:24
	5,16544,38309	199,25850	190,33190	2,34853,6031	26,81246	
78	95517,50823,43596	3 22649,06239	3 37790,49345	9,98008,29844,9108	10,50873,04074	46:48
	5,16835,34606	199,03420	190,10738	2,34998,6047	26,79882	
77	95512,33988,08990	3 22450,02819	3 37600,38607	9,98005,94846,3061	10,50846,24192	46:12
	5,17126,29328	198,81031	189,88323	2,35143,6222	26,78518	
76	95507,16861,79662	3 22251,21788	3 37410,50284	9,98003,59702,6839	10,50819,45674	45:36
	5,17417,22475	198,58680	189,65950	2,35288,6553	26,77158	
75	95501,99444,57187	3 22052,63108	3 37220,84334	9,98001,24414,0286	10,50792,68516	45: 0
	5,17708,14047	198,36368	189,43613	2,35433,7041	26,75799	
74	95496,81736,43140	3 21854,26740	3 37031,40721	9,97998,88980,3245	10,50765,92717	44:24
	5,17999,04040	198,14094	189,21316	2,35578,7686	26,74440	
73	95491,63737,39100	3 21656,12646	3 36842,19405	9,97996,53401,5559	10,50739,18277	43:48
	5,18289,92457	197,91860	188,99059	2,35723,8489	26,73085	
72	95486,45447,46643	3 21458,20786	3 36653,20346	9,97994,17677,7070	10,50712,45192	43:12
	5,18580,79294	197,69663	188,76838	2,35868,9449	26,71731	
71	95481,26866,67349	3 21260,51123	3 36464,43508	9,97991,81808,7621	10,50685,73461	42:36
	5,18871,64552	197,47507	188,54657	2,36014,0567	26,70378	
70	95476,07995,02797	3 21063,03616	3 36275,88851	9,97989,45794,7054	10,50659,03083	42: 0
	5,19162,48228	197,25387	188,32515	2,36159,1842	26,69027	
69	95470,88832,54569	3 20865,78229	3 36087,56336	9,97987,09635,5212	10,50632,34056	41:24
	5,19453,30324	197,03306	188,10410	2,36304,3276	26,67678	
68	95465,69379,24245	3 20668,74923	3 35899,45926	9,97984,73331,1936	10,50605,66378	40:48
	5,19744,10838	196,81264	187,88344	2,36449,4868	26,66330	
67	95460,49635,13407	3 20471,93659	3 35711,57582	9,97982,36881,7068	10,50579,00048	40:12
	5,20034,89767	196,59260	187,66316	2,36594,6617	26,64985	

GRAD. 72.

17. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	29787,47448,77048	31203,98031	1 04755,37403	9,47403,36833,9131	9,49420,99952	19:48
	16,66054,58955	19,15375	5,70701	24,28389,9679	26,64985	
34	29804,13503,36003	31223,13406	1 04761,08104	9,47427,65223,8810	9,49447,64937	20:24
	16,65963,80095	19,15583	5,71082	24,26900,6545	26,63640	
35	29820,79467,16098	31242,28989	1 04766,79186	9,47451,92124,5355	9,49474,28577	21: 0
	16,65872,96162	19,15792	5,71464	24,25413,0047	26,62298	
36	29837,45340,12260	31261,44781	1 04772,50650	9,47476,17537,5402	9,49500,90875	21:36
	16,65782,07154	19,16001	5,71846	24,23927,0158	26,60958	
37	29854,11122,19414	31280,60782	1 04778,22496	9,47500,41464,5560	9,49527,51833	22:12
	16,65691,13072	19,16210	5,72227	24,22442,6845	26,59618	
38	29870,76813,32486	31299,76992	1 04783,94723	9,47524,63907,2405	9,49554,11451	22:48
	16,65600,13915	19,16419	5,72609	24,20960,0082	26,58281	
39	29887,42413,46401	31318,93411	1 04789,67332	9,47548,84867,2487	9,49580,69732	23:24
	16,65509,09686	19,16630	5,72990	24,19478,9841	26,56945	
40	29904,07922,56087	31338,10041	1 04795,40322	9,47573,04346,2328	9,49607,26677	24: 0
	16,65418,00382	19,16838	5,73373	24,17999,6091	26,55611	
41	29920,73340,56469	31357,26879	1 04801,13695	9,47597,22345,8419	9,49633,82288	24:36
	16,65326,86005	19,17049	5,73755	24,16521,8807	26,54278	
42	29937,38667,42474	31376,43928	1 04806,87450	9,47621,38867,7226	9,49660,36566	25:12
	16,65235,66556	19,17259	5,74136	24,15045,7958	26,52948	
43	29954,03903,09030	31395,61187	1 04812,61586	9,47645,53913,5184	9,49686,89514	25:48
	16,65144,42034	19,17468	5,74519	24,13571,3516	26,51619	
44	29970,69047,51064	31414,78655	1 04818,36105	9,47669,67484,8700	9,49713,41133	26:24
	16,65053,12439	19,17679	5,74902	24,12098,5453	26,50291	
45	29987,34100,63503	31433,96334	1 04824,11007	9,47693,79583,4153	9,49739,91424	27: 0
	16,64961,77773	19,17890	5,75283	24,10627,3742	26,48965	
46	30003,99062,41276	31453,14224	1 04829,86290	9,47717,90210,7895	9,49766,40389	27:36
	16,64870,38035	19,18100	5,75667	24,09157,8353	26,47641	
47	30020,63932,79311	31472,32324	1 04835,61957	9,47741,99368,6248	9,49792,88030	28:12
	16,64778,93225	19,18310	5,76049	24,07689,9260	26,46319	
48	30037,28711,72536	31491,50634	1 04841,38006	9,47766,07058,5508	9,49819,34349	28:48
	16,64687,43345	19,18522	5,76431	24,06223,6433	26,44998	
49	30053,93399,15881	31510,69156	1 04847,14437	9,47790,13282,1941	9,49845,79347	29:24
	16,64595,88392	19,18733	5,76814	24,04758,9845	26,43678	
50	30070,57995,04273	31529,87889	1 04852,91251	9,47814,18041,1786	9,49872,23025	30: 0
	16,64504,28370	19,18944	5,77198	24,03295,9469	26,42361	
51	30087,22499,32643	31549,06833	1 04858,68449	9,47838,21337,1255	9,49898,65386	30:36
	16,64412,63277	19,19155	5,77580	24,01834,5275	26,41046	
52	30103,86911,95920	31568,25988	1 04864,46029	9,47862,23171,6530	9,49925,06432	31:12
	16,64320,93115	19,19367	5,77963	24,00374,7237	26,39730	
53	30120,51232,89035	31587,45355	1 04870,23992	9,47886,23546,3767	9,49951,46162	31:48
	16,64229,17881	19,19578	5,78347	23,98916,5328	26,38418	
54	30137,15462,06916	31606,64933	1 04876,02339	9,47910,22462,9095	9,49977,84580	32:24
	16,64137,37580	19,19790	5,78730	23,97459,9518	26,37107	
55	30153,79599,44496	31625,84723	1 04881,81069	9,47934,19922,8613	9,50004,21687	33: 0
	16,64045,52208	19,20002	5,79113	23,96004,9782	26,35798	
56	30170,43644,96704	31645,04725	1 04887,60182	9,47958,15927,8395	9,50030,57485	33:36
	16,63953,61767	19,20214	5,79497	23,94551,6091	26,34489	
57	30187,07598,58471	31664,24939	1 04893,39679	9,47982,10479,4486	9,50056,91974	34:12
	16,63861,66258	19,20427	5,79880	23,93099,8417	26,33184	
58	30203,71460,24729	31683,45366	1 04899,19559	9,48006,03579,2903	9,50083,25158	34:48
	16,63769,65681	19,20638	5,80264	23,91649,6735	26,31879	
59	30220,35229,90410	31702,66004	1 04904,99823	9,48029,95228,9638	9,50109,57037	35:24
	16,63677,60035	19,20852	5,80648	23,90201,1015	26,30576	
60	30236,98907,50445	31721,86856	1 04910,80471	9,48053,85430,0653	9,50135,87613	36: 0
	16,63585,49321	19,21064	5,81032	23,88754,1232	26,29274	
61	30253,62492,99766	31741,07920	1 04916,61503	9,48077,74184,1885	9,50162,16887	36:36
	16,63493,33540	19,21277	5,81415	23,87308,7357	26,27975	
62	30270,25986,33306	31760,29197	1 04922,42918	9,48101,61492,9242	9,50188,44862	37:12
	16,63401,12692	19,21490	5,81800	23,85864,9365	26,26677	
63	30286,89387,45998	31779,50687	1 04928,24718	9,48125,47357,8607	9,50214,71539	37:48
	16,63308,86776	19,21703	5,82184	23,84422,7227	26,25380	
64	30303,52696,32774	31798,72390	1 04934,06902	9,48149,31780,5834	9,50240,96919	38:24
	16,63216,55794	19,21916	5,82569	23,82982,0917	26,24085	
65	30320,15912,88568	31817,94306	1 04939,89471	9,48173,14762,6751	9,50267,21004	39: 0
	16,63124,19746	19,22130	5,82952	23,81543,0407	26,22791	
66	30336,79037,08314	31837,16436	1 04945,72423	9,48196,96305,7158	9,50293,43795	39:36
	16,63031,78630	19,22344	5,83337	23,80105,5673	26,21500	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	95460,49635,13407	3 20471,93659	3 35711,57582	9,97982,36881,7068	10,50579,00048	40:12
	5,20034,89767	196,59260	187,66316	2,36594,6617	26,64985	
66	95455,29600,23640	3 20275,34399	3 35523,91266	9,97980,00287,0451	10,50552,35063	39:36
	5,20325,67114	196,37293	187,44326	2,36739,8524	26,63640	
65	95450,09274,56526	3 20078,97106	3 35336,46940	9,97977,63547,1927	10,50525,71423	39: 0
	5,20616,42874	196,15366	187,22373	2,36885,0591	26,62298	
64	95444,88658,13652	3 19882,81740	3 35149,24567	9,97975,26662,1336	10,50499,09125	38:24
	5,20907,17049	195,93475	187,00460	2,37030,2815	26,60958	
63	95439,67750,96603	3 19686,88265	3 34962,24107	9,97972,89631,8521	10,50472,48167	37:48
	5,21197,89638	195,71622	186,78584	2,37175,5197	26,59618	
62	95434,46553,06965	3 19491,16643	3 34775,45523	9,97970,52456,3324	10,50445,88549	37:12
	5,21488,60638	195,49808	186,56744	2,37320,7739	26,58281	
61	95429,25064,46327	3 19295,66835	3 34588,88779	9,97968,15135,5585	10,50419,30268	36:36
	5,21779,30050	195,28030	186,34944	2,37466,0440	26,56945	
60	95424,03285,16277	3 19100,38805	3 34402,53835	9,97965,77669,5145	10,50392,73323	36: 0
	5,22069,97873	195,06291	186,13181	2,37611,3299	26,55611	
59	95418,81215,18404	3 18905,32514	3 34216,40654	9,97963,40058,1846	10,50366,17712	35:24
	5,22360,64105	194,84589	185,91454	2,37756,6316	26,54278	
58	95413,58854,54299	3 18710,47925	3 34030,49200	9,97961,02301,5530	10,50339,63434	34:48
	5,22651,28746	194,62924	185,69766	2,37901,9495	26,52948	
57	95408,36203,25553	3 18515,85001	3 33844,79434	9,97958,64399,6035	10,50313,10486	34:12
	5,22941,91795	194,41296	185,48114	2,38047,2830	26,51619	
56	95403,13261,33758	3 18321,43705	3 33659,31320	9,97956,26352,3205	10,50286,58867	33:36
	5,23232,53251	194,19707	185,26500	2,38192,6326	26,50291	
55	95397,90028,80507	3 18127,23998	3 33474,04820	9,97953,88159,6879	10,50260,08576	33: 0
	5,23523,13113	193,98153	185,04924	2,38337,9982	26,48965	
54	95392,66505,67394	3 17933,25845	3 33288,99896	9,97951,49821,6897	10,50233,59611	32:24
	5,23813,71381	193,76637	184,83383	2,38483,3796	26,47641	
53	95387,42691,96013	3 17739,49208	3 33104,16513	9,97949,11338,3101	10,50207,11970	31:48
	5,24104,28053	193,55158	184,61880	2,38628,7771	26,46319	
52	95382,18587,67960	3 17545,94050	3 32919,54633	9,97946,72709,5330	10,50180,65651	31:12
	5,24394,83127	193,33716	184,40414	2,38774,1905	26,44998	
51	95376,94192,84833	3 17352,60334	3 32735,14219	9,97944,33935,3425	10,50154,20653	30:36
	5,24685,36606	193,12310	184,18985	2,38919,6200	26,43678	
50	95371,69507,48227	3 17159,48024	3 32550,95234	9,97941,95015,7225	10,50127,76975	30: 0
	5,24975,88485	192,90942	183,97592	2,39065,0653	26,42361	
49	95366,44531,59742	3 16966,57082	3 32366,97642	9,97939,55950,6572	10,50101,34614	29:24
	5,25266,38766	192,69610	183,76235	2,39210,5268	26,41046	
48	95361,19265,20976	3 16773,87472	3 32183,21407	9,97937,16740,1304	10,50074,93568	28:48
	5,25556,87446	192,48314	183,54916	2,39356,0042	26,39730	
47	95355,93708,33530	3 16581,39158	3 31999,66491	9,97934,77384,1262	10,50048,53838	28:12
	5,25847,34526	192,27054	183,33633	2,39501,4977	26,38418	
46	95350,67860,99004	3 16389,12104	3 31816,32858	9,97932,37882,6285	10,50022,15420	27:36
	5,26137,80003	192,05832	183,12386	2,39647,0073	26,37107	
45	95345,41723,19001	3 16197,06272	3 31633,20472	9,97929,98235,6212	10,49995,78313	27: 0
	5,26428,23878	191,84646	182,91176	2,39792,5329	26,35798	
44	95340,15294,95123	3 16005,21626	3 31450,29296	9,97927,58443,0883	10,49969,42515	26:24
	5,26718,66149	191,63495	182,70001	2,39938,0745	26,34489	
43	95334,88576,28974	3 15813,58131	3 31267,59295	9,97925,18505,0138	10,49943,08026	25:48
	5,27009,06816	191,42381	182,48863	2,40083,6323	26,33184	
42	95329,61567,22158	3 15622,15750	3 31085,10432	9,97922,78421,3815	10,49916,74842	25:12
	5,27299,45878	191,21303	182,27761	2,40229,2062	26,31879	
41	95324,34267,76280	3 15430,94447	3 30902,82671	9,97920,38192,1753	10,49890,42963	24:36
	5,27589,83333	191,00261	182,06694	2,40374,7961	26,30576	
40	95319,06677,92947	3 15239,94186	3 30720,75977	9,97917,97817,3792	10,49864,12387	24: 0
	5,27880,19181	190,79255	181,85664	2,40520,4021	26,29274	
39	95313,78797,73766	3 15049,14931	3 30538,90313	9,97915,57296,9771	10,49837,83113	23:24
	5,28170,53421	190,58284	181,64670	2,40666,0244	26,27975	
38	95308,50627,20345	3 14858,56647	3 30357,25643	9,97913,16630,9527	10,49811,55138	22:48
	5,28460,86052	190,37350	181,43710	2,40811,6627	26,26677	
37	95303,22166,34293	3 14668,19297	3 30175,81933	9,97910,75819,2900	10,49785,28461	22:12
	5,28751,17074	190,16450	181,22787	2,40957,3172	26,25380	
36	95297,93415,17219	3 14478,02847	3 29994,59146	9,97908,34861,9728	10,49759,03081	21:36
	5,29041,46485	189,95586	181,01899	2,41102,9879	26,24085	
35	95292,64373,70734	3 14288,07261	3 29813,57247	9,97905,93758,9849	10,49732,78996	21: 0
	5,29331,74283	189,74759	180,81048	2,41248,6747	26,22791	
34	95287,35041,96451	3 14098,32502	3 29632,76199	9,97903,52510,3102	10,49706,56205	20:24
	5,29622,00471	189,53966	180,60230	2,41394,3777	26,21500	

GRAD. 72.

17. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	30353,42068,86944	31856,38780	1 04951,55760	9,48220,76411,2831	9,50319,65295	40:12
	16,62939,32450	19,22557	5,83722	23,78669,6684	26,20210	
68	30370,05008,19394	31875,61337	1 04957,39482	9,48244,55080,9515	9,50345,85505	40:48
	16,62846,81204	19,22771	5,84107	23,77235,3417	26,18921	
69	30386,67855,00598	31894,84108	1 04963,23589	9,48268,32316,2932	9,50372,04426	41:24
	16,62754,24892	19,22986	5,84491	23,75802,5843	26,17634	
70	30403,30609,25490	31914,07094	1 04969,08080	9,48292,08118,8775	9,50398,22060	42: 0
	16,62661,63516	19,23199	5,84876	23,74371,3937	26,16349	
71	30419,93270,89006	31933,30293	1 04974,92956	9,48315,82490,2712	9,50424,38409	42:36
	16,62568,97074	19,23414	5,85261	23,72941,7671	26,15065	
72	30436,55839,86080	31952,53707	1 04980,78217	9,48339,55432,0383	9,50450,53474	43:12
	16,62476,25568	19,23629	5,85646	23,71513,7019	26,13783	
73	30453,18316,11648	31971,77336	1 04986,63863	9,48363,26945,7402	9,50476,67257	43:48
	16,62383,48999	19,23843	5,86032	23,70087,1956	26,12502	
74	30469,80699,60647	31991,01179	1 04992,49895	9,48386,97032,9358	9,50502,79759	44:24
	16,62290,67364	19,24058	5,86416	23,68662,2452	26,11223	
75	30486,42990,28011	32010,25237	1 04998,36311	9,48410,65695,1810	9,50528,90982	45: 0
	16,62197,80666	19,24273	5,86803	23,67238,8485	26,09945	
76	30503,05188,08677	32029,49510	1 05004,23114	9,48434,32934,0295	9,50555,00927	45:36
	16,62104,88906	19,24488	5,87187	23,65817,0026	26,08669	
77	30519,67292,97583	32048,73998	1 05010,10301	9,48457,98751,0321	9,50581,09596	46:12
	16,62011,92082	19,24704	5,87573	23,64396,7050	26,07395	
78	30536,29304,89665	32067,98702	1 05015,97874	9,48481,63147,7371	9,50607,16991	46:48
	16,61918,90195	19,24919	5,87959	23,62977,9530	26,06122	
79	30552,91223,79860	32087,23621	1 05021,85833	9,48505,26125,6901	9,50633,23113	47:24
	16,61825,83246	19,25134	5,88345	23,61560,7440	26,04851	
80	30569,53049,63106	32106,48755	1 05027,74178	9,48528,87686,4341	9,50659,27964	48: 0
	16,61732,71234	19,25351	5,88730	23,60145,0756	26,03581	
81	30586,14782,34340	32125,74106	1 05033,62908	9,48552,47831,5097	9,50685,31545	48:36
	16,61639,54161	19,25566	5,89117	23,58730,9448	26,02313	
82	30602,76421,88501	32144,99672	1 05039,52025	9,48576,06562,4545	9,50711,33858	49:12
	16,61546,32025	19,25782	5,89502	23,57318,3494	26,01046	
83	30619,37968,20526	32164,25454	1 05045,41527	9,48599,63880,8039	9,50737,34904	49:48
	16,61453,04830	19,25999	5,89889	23,55907,2866	25,99781	
84	30635,99421,25356	32183,51453	1 05051,31416	9,48623,19788,0905	9,50763,34685	50:24
	16,61359,72572	19,26215	5,90275	23,54497,7539	25,98517	
85	30652,60780,97928	32202,77668	1 05057,21691	9,48646,74285,8444	9,50789,33202	51: 0
	16,61266,35253	19,26431	5,90662	23,53089,7487	25,97256	
86	30669,22047,33181	32222,04099	1 05063,12353	9,48670,27375,5931	9,50815,30458	51:36
	16,61172,92875	19,26648	5,91048	23,51683,2685	25,95995	
87	30685,83220,26056	32241,30747	1 05069,03401	9,48693,79058,8616	9,50841,26453	52:12
	16,61079,45436	19,26865	5,91434	23,50278,3106	25,94736	
88	30702,44299,71492	32260,57612	1 05074,94835	9,48717,29337,1722	9,50867,21189	52:48
	16,60985,92937	19,27082	5,91822	23,48874,8725	25,93479	
89	30719,05285,64429	32279,84694	1 05080,86657	9,48740,78212,0447	9,50893,14668	53:24
	16,60892,35378	19,27299	5,92208	23,47472,9518	25,92223	
90	30735,66177,99807	32299,11993	1 05086,78865	9,48764,25684,9965	9,50919,06891	54: 0
	16,60798,72760	19,27517	5,92595	23,46072,5458	25,90969	
91	30752,26976,72567	32318,39510	1 05092,71460	9,48787,71757,5423	9,50944,97860	54:36
	16,60705,05084	19,27734	5,92982	23,44673,6519	25,89716	
92	30768,87681,77651	32337,67244	1 05098,64442	9,48811,16431,1942	9,50970,87576	55:12
	16,60611,32347	19,27951	5,93369	23,43276,2677	25,88464	
93	30785,48293,09998	32356,95195	1 05104,57811	9,48834,59707,4619	9,50996,76040	55:48
	16,60517,54553	19,28170	5,93756	23,41880,3906	25,87215	
94	30802,08810,64551	32376,23365	1 05110,51567	9,48858,01587,8525	9,51022,63255	56:24
	16,60423,71701	19,28387	5,94144	23,40486,0182	25,85967	
95	30818,69234,36252	32395,51752	1 05116,45711	9,48881,42073,8707	9,51048,49222	57: 0
	16,60329,83790	19,28605	5,94531	23,39093,1479	25,84720	
96	30835,29564,20042	32414,80357	1 05122,40242	9,48904,81167,0186	9,51074,33942	57:36
	16,60235,90821	19,28824	5,94919	23,37701,7770	25,83475	
97	30851,89800,10863	32434,09181	1 05128,35161	9,48928,18868,7956	9,51100,17417	58:12
	16,60141,92797	19,29042	5,95306	23,36311,9034	25,82231	
98	30868,49942,03660	32453,38223	1 05134,30467	9,48951,55180,6990	9,51125,99648	58:48
	16,60047,89713	19,29260	5,95694	23,34923,5242	25,80989	
99	30885,09989,93373	32472,67483	1 05140,26161	9,48974,90104,2232	9,51151,80637	59:24
	16,59953,81574	19,29479	5,96081	23,33536,6372	25,79748	
100	30901,69943,74947	32491,96962	1 05146,22242	9,48998,23640,8604	9,51177,60385	60: 0
	16,59859,68379	19,29698	5,96470	23,32151,2397	25,78510	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	95282,05419,95980	3 13908,78536	3 29452,15969	9,97901,11115,9325	10,49680,34705	19:48
	5,29912,25044	189,33208	180,39448	2,41540,0969	26,20210	
32	95276,75507,70936	3 13719,45328	3 29271,76521	9,97898,69575,8356	10,49654,14495	19:12
	5,30202,48003	189,12487	180,18702	2,41685,8324	26,18921	
31	95271,45305,22933	3 13530,32841	3 29091,57819	9,97896,27890,0032	10,49627,95574	18:36
	5,30492,69347	188,91799	179,97991	2,41831,5840	26,17634	
30	95266,14812,53586	3 13341,41042	3 28911,59828	9,97893,86058,4192	10,49601,77940	18: 0
	5,30782,89075	188,71147	179,77314	2,41977,3519	26,16349	
29	95260,84029,64511	3 13152,69895	3 28731,82514	9,97891,44081,0673	10,49575,61591	17:24
	5,31073,07187	188,50530	179,56673	2,42123,1360	26,15065	
28	95255,52956,57324	3 12964,19365	3 28552,25841	9,97889,01957,9313	10,49549,46526	16:48
	5,31363,23680	188,29949	179,36067	2,42268,9364	26,13783	
27	95250,21593,33644	3 12775,89416	3 28372,89774	9,97886,59688,9949	10,49523,32743	16:12
	5,31653,38555	188,09401	179,15495	2,42414,7530	26,12502	
26	95244,89939,95089	3 12587,80015	3 28193,74279	9,97884,17274,2419	10,49497,20241	15:36
	5,31943,51811	187,88888	178,94959	2,42560,5860	26,11223	
25	95239,57996,43278	3 12399,91127	3 28014,79320	9,97881,74713,6559	10,49471,09018	15: 0
	5,32233,63445	187,68411	178,74456	2,42706,4352	26,09945	
24	95234,25762,79833	3 12212,22716	3 27836,04864	9,97879,32007,2207	10,49444,99073	14:24
	5,32523,73460	187,47968	178,53989	2,42852,3007	26,08669	
23	95228,93239,06373	3 12024,74748	3 27657,50875	9,97876,89154,9200	10,49418,90404	13:48
	5,32813,81851	187,27559	178,33556	2,42998,1825	26,07395	
22	95223,60425,24522	3 11837,47189	3 27479,17319	9,97874,46156,7375	10,49392,83009	13:12
	5,33103,88619	187,07185	178,13157	2,43144,0807	26,06122	
21	95218,27321,35903	3 11650,40004	3 27301,04162	9,97872,03012,6568	10,49366,76887	12:36
	5,33393,93764	186,86845	177,92793	2,43289,9952	26,04851	
20	95212,93927,42139	3 11463,53159	3 27123,11369	9,97869,59722,6616	10,49340,72036	12: 0
	5,33683,97284	186,66540	177,72463	2,43435,9260	26,03581	
19	95207,60243,44855	3 11276,86619	3 26945,38906	9,97867,16286,7356	10,49314,68455	11:24
	5,33973,99178	186,46268	177,52167	2,43581,8733	26,02313	
18	95202,26269,45677	3 11090,40351	3 26767,86739	9,97864,72704,8623	10,49288,66142	10:48
	5,34263,99446	186,26031	177,31906	2,43727,8368	26,01046	
17	95196,92005,46231	3 10904,14320	3 26590,54833	9,97862,28977,0255	10,49262,65096	10:12
	5,34553,98086	186,05828	177,11678	2,43873,8168	25,99781	
16	95191,57451,48145	3 10718,08492	3 26413,43155	9,97859,85103,2087	10,49236,65315	9:36
	5,34843,95097	185,85658	176,91484	2,44019,8132	25,98517	
15	95186,22607,53048	3 10532,22834	3 26236,51671	9,97857,41083,3955	10,49210,66798	9: 0
	5,35133,90480	185,65524	176,71324	2,44165,8259	25,97256	
14	95180,87473,62568	3 10346,57310	3 26059,80347	9,97854,96917,5696	10,49184,69542	8:24
	5,35423,84233	185,45422	176,51199	2,44311,8551	25,95995	
13	95175,52049,78335	3 10161,11888	3 25883,29148	9,97852,52605,7145	10,49158,73547	7:48
	5,35713,76353	185,25354	176,31106	2,44457,9008	25,94736	
12	95170,16336,01982	3 09975,86534	3 25706,98042	9,97850,08147,8137	10,49132,78811	7:12
	5,36003,66844	185,05321	176,11048	2,44603,9628	25,93479	
11	95164,80332,35138	3 09790,81213	3 25530,86994	9,97847,63543,8509	10,49106,85332	6:36
	5,36293,55700	184,85320	175,91023	2,44750,0413	25,92223	
10	95159,44038,79438	3 09605,95893	3 25354,95971	9,97845,18793,8096	10,49080,93109	6: 0
	5,36583,42923	184,65353	175,71032	2,44896,1362	25,90969	
9	95154,07455,36515	3 09421,30540	3 25179,24939	9,97842,73897,6734	10,49055,02140	5:24
	5,36873,28512	184,45420	175,51073	2,45042,2478	25,89716	
8	95148,70582,08003	3 09236,85120	3 25003,73866	9,97840,28855,4256	10,49029,12424	4:48
	5,37163,12465	184,25520	175,31149	2,45188,3757	25,88464	
7	95143,33418,95538	3 09052,59600	3 24828,42717	9,97837,83667,0499	10,49003,23960	4:12
	5,37452,94782	184,05653	175,11258	2,45334,5201	25,87215	
6	95137,95966,00756	3 08868,53947	3 24653,31459	9,97835,38332,5298	10,48977,36745	3:36
	5,37742,75461	183,85820	174,91400	2,45480,6811	25,85967	
5	95132,58223,25295	3 08684,68127	3 24478,40059	9,97832,92851,8487	10,48951,50778	3: 0
	5,38032,54504	183,66019	174,71574	2,45626,8586	25,84720	
4	95127,20190,70791	3 08501,02108	3 24303,68485	9,97830,47224,9901	10,48925,66058	2:24
	5,38322,31906	183,46253	174,51783	2,45773,0526	25,83475	
3	95121,81868,38885	3 08317,55855	3 24129,16702	9,97828,01451,9375	10,48899,82583	1:48
	5,38612,07669	183,26518	174,32024	2,45919,2631	25,82231	
2	95116,43256,31216	3 08134,29337	3 23954,84678	9,97825,55532,6744	10,48874,00352	1:12
	5,38901,81791	183,06817	174,12298	2,46065,4903	25,80989	
1	95111,04354,49425	3 07951,22520	3 23780,72380	9,97823,09467,1841	10,48848,19363	0:36
	5,39191,54271	182,87148	173,92605	2,46211,7340	25,79748	
0	95105,65162,95154	3 07768,35372	3 23606,79775	9,97820,63255,4501	10,48822,39615	0: 0
	5,39481,25110	182,67513	173,72945	2,46357,9942	25,78510	

GRAD. 72.

18. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
0	30901,69943,74947	32491,96962	1 05146,22242	9,48998,23640,8604	9,51177,60385	0: 0
	16,59859,68379	19,29698	5,96470	23,32151,2397	25,78510	
1	30918,29803,43326	32511,26660	1 05152,18712	9,49021,55792,1001	9,51203,38895	0:36
	16,59765,50126	19,29917	5,96858	23,30767,3294	25,77271	
2	30934,89568,93452	32530,56577	1 05158,15570	9,49044,86559,4295	9,51229,16166	1:12
	16,59671,26818	19,30137	5,97245	23,29384,9038	25,76036	
3	30951,49240,20270	32549,86714	1 05164,12815	9,49068,15944,3333	9,51254,92202	1:48
	16,59576,98454	19,30355	5,97634	23,28003,9601	25,74801	
4	30968,08817,18724	32569,17069	1 05170,10449	9,49091,43948,2934	9,51280,67003	2:24
	16,59482,65035	19,30575	5,98023	23,26624,4963	25,73567	
5	30984,68299,83759	32588,47644	1 05176,08472	9,49114,70572,7897	9,51306,40570	3: 0
	16,59388,26562	19,30795	5,98411	23,25246,5098	25,72336	
6	31001,27688,10321	32607,78439	1 05182,06883	9,49137,95819,2995	9,51332,12906	3:36
	16,59293,83032	19,31014	5,98799	23,23869,9978	25,71106	
7	31017,86981,93353	32627,09453	1 05188,05682	9,49161,19689,2973	9,51357,84012	4:12
	16,59199,34448	19,31234	5,99188	23,22494,9584	25,69877	
8	31034,46181,27801	32646,40687	1 05194,04870	9,49184,42184,2557	9,51383,53889	4:48
	16,59104,80811	19,31455	5,99577	23,21121,3888	25,68651	
9	31051,05286,08612	32665,72142	1 05200,04447	9,49207,63305,6445	9,51409,22540	5:24
	16,59010,22120	19,31674	5,99965	23,19749,2866	25,67424	
10	31067,64296,30732	32685,03816	1 05206,04412	9,49230,83054,9311	9,51434,89964	6: 0
	16,58915,58374	19,31895	6,00355	23,18378,6495	25,66200	
11	31084,23211,89106	32704,35711	1 05212,04767	9,49254,01433,5806	9,51460,56164	6:36
	16,58820,89576	19,32116	6,00743	23,17009,4749	25,64977	
12	31100,82032,78682	32723,67827	1 05218,05510	9,49277,18443,0555	9,51486,21141	7:12
	16,58726,15724	19,32336	6,01133	23,15641,7605	25,63757	
13	31117,40758,94406	32743,00163	1 05224,06643	9,49300,34084,8160	9,51511,84898	7:48
	16,58631,36819	19,32557	6,01522	23,14275,5038	25,62536	
14	31133,99390,31225	32762,32720	1 05230,08165	9,49323,48360,3198	9,51537,47434	8:24
	16,58536,52863	19,32779	6,01911	23,12910,7025	25,61318	
15	31150,57926,84088	32781,65499	1 05236,10076	9,49346,61271,0223	9,51563,08752	9: 0
	16,58441,63854	19,32999	6,02301	23,11547,3541	25,60101	
16	31167,16368,47942	32800,98498	1 05242,12377	9,49369,72818,3764	9,51588,68853	9:36
	16,58346,69793	19,33221	6,02690	23,10185,4562	25,58886	
17	31183,74715,17735	32820,31719	1 05248,15067	9,49392,83003,8326	9,51614,27739	10:12
	16,58251,70680	19,33442	6,03080	23,08825,0064	25,57672	
18	31200,32966,88415	32839,65161	1 05254,18147	9,49415,91828,8390	9,51639,85411	10:48
	16,58156,66516	19,33664	6,03470	23,07466,0024	25,56460	
19	31216,91123,54931	32858,98825	1 05260,21617	9,49438,99294,8414	9,51665,41871	11:24
	16,58061,57302	19,33886	6,03860	23,06108,4417	25,55248	
20	31233,49185,12233	32878,32711	1 05266,25477	9,49462,05403,2831	9,51690,97119	12: 0
	16,57966,43035	19,34107	6,04250	23,04752,3220	25,54039	
21	31250,07151,55268	32897,66818	1 05272,29727	9,49485,10155,6051	9,51716,51158	12:36
	16,57871,23720	19,34330	6,04639	23,03397,6409	25,52831	
22	31266,65022,78988	32917,01148	1 05278,34366	9,49508,13553,2460	9,51742,03989	13:12
	16,57775,99353	19,34552	6,05030	23,02044,3960	25,51625	
23	31283,22798,78341	32936,35700	1 05284,39396	9,49531,15597,6420	9,51767,55614	13:48
	16,57680,69937	19,34774	6,05421	23,00692,5850	25,50419	
24	31299,80479,48278	32955,70474	1 05290,44817	9,49554,16290,2270	9,51793,06033	14:24
	16,57585,35472	19,34997	6,05810	22,99342,2053	25,49215	
25	31316,38064,83750	32975,05471	1 05296,50627	9,49577,15632,4323	9,51818,55248	15: 0
	16,57489,95956	19,35220	6,06202	22,97993,2550	25,48013	
26	31332,95554,79706	32994,40691	1 05302,56829	9,49600,13625,6873	9,51844,03261	15:36
	16,57394,51392	19,35443	6,06591	22,96645,7314	25,46813	
27	31349,52949,31098	33013,76134	1 05308,63420	9,49623,10271,4187	9,51869,50074	16:12
	16,57299,01780	19,35666	6,06983	22,95299,6322	25,45613	
28	31366,10248,32878	33033,11800	1 05314,70403	9,49646,05571,0509	9,51894,95687	16:48
	16,57203,47118	19,35888	6,07373	22,93954,9552	25,44415	
29	31382,67451,79996	33052,47688	1 05320,77776	9,49668,99526,0061	9,51920,40102	17:24
	16,57107,87409	19,36113	6,07764	22,92611,6978	25,43218	
30	31399,24559,67405	33071,83801	1 05326,85540	9,49691,92137,7039	9,51945,83320	18: 0
	16,57012,22652	19,36336	6,08156	22,91269,8581	25,42024	
31	31415,81571,90057	33091,20137	1 05332,93696	9,49714,83407,5620	9,51971,25344	18:36
	16,56916,52847	19,36559	6,08546	22,89929,4333	25,40829	
32	31432,38488,42904	33110,56696	1 05339,02242	9,49737,73336,9953	9,51996,66173	19:12
	16,56820,77995	19,36783	6,08938	22,88590,4214	25,39638	
33	31448,95309,20899	33129,93479	1 05345,11180	9,49760,61927,4167	9,52022,05811	19:48
	16,56724,98096	19,37008	6,09329	22,87252,8199	25,38447	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
100	95105,65162,95154	3 07768,35372	3 23606,79775	9,97820,63255,4501	10,48822,39615	60: 0
	5,39481,25110	182,67513	173,72945	2,46357,9942	25,78510	
99	95100,25681,70044	3 07585,67859	3 23433,06830	9,97818,16897,4559	10,48796,61105	59:24
	5,39770,94305	182,47910	173,53316	2,46504,2712	25,77271	
98	95094,85910,75739	3 07403,19949	3 23259,53514	9,97815,70393,1847	10,48770,83834	58:48
	5,40060,61855	182,28340	173,33722	2,46650,5646	25,76036	
97	95089,45850,13884	3 07220,91609	3 23086,19792	9,97813,23742,6201	10,48745,07798	58:12
	5,40350,27761	182,08802	173,14160	2,46796,8747	25,74801	
96	95084,05499,86123	3 07038,82807	3 22913,05632	9,97810,76945,7454	10,48719,32997	57:36
	5,40639,92020	181,89297	172,94629	2,46943,2014	25,73567	
95	95078,64859,94103	3 06856,93510	3 22740,11003	9,97808,30002,5440	10,48693,59430	57: 0
	5,40929,54632	181,69824	172,75132	2,47089,5448	25,72336	
94	95073,23930,39471	3 06675,23686	3 22567,35871	9,97805,82912,9992	10,48667,87094	56:24
	5,41219,15598	181,50384	172,55667	2,47235,9049	25,71106	
93	95067,82711,23873	3 06493,73302	3 22394,80204	9,97803,35677,0943	10,48642,15988	55:48
	5,41508,74913	181,30976	172,36234	2,47382,2815	25,69877	
92	95062,41202,48960	3 06312,42326	3 22222,43970	9,97800,88294,8128	10,48616,46111	55:12
	5,41798,32580	181,11600	172,16834	2,47528,6749	25,68651	
91	95056,99404,16380	3 06131,30726	3 22050,27136	9,97798,40766,1379	10,48590,77460	54:36
	5,42087,88596	180,92256	171,97464	2,47675,0849	25,67424	
90	95051,57316,27784	3 05950,38470	3 21878,29672	9,97795,93091,0530	10,48565,10036	54: 0
	5,42377,42961	180,72945	171,78128	2,47821,5117	25,66200	
89	95046,14938,84823	3 05769,65525	3 21706,51544	9,97793,45269,5413	10,48539,43836	53:24
	5,42666,95674	180,53664	171,58824	2,47967,9551	25,64977	
88	95040,72271,89149	3 05589,11861	3 21534,92720	9,97790,97301,5862	10,48513,78859	52:48
	5,42956,46734	180,34418	171,39551	2,48114,4154	25,63757	
87	95035,29315,42415	3 05408,77443	3 21363,53169	9,97788,49187,1708	10,48488,15102	52:12
	5,43245,96139	180,15201	171,20310	2,48260,8922	25,62536	
86	95029,86069,46276	3 05228,62242	3 21192,32859	9,97786,00926,2786	10,48462,52566	51:36
	5,43535,43890	179,96017	171,01101	2,48407,3860	25,61318	
85	95024,42534,02386	3 05048,66225	3 21021,31758	9,97783,52518,8926	10,48436,91248	51: 0
	5,43824,89985	179,76865	170,81924	2,48553,8963	25,60101	
84	95018,98709,12401	3 04868,89360	3 20850,49834	9,97781,03964,9963	10,48411,31147	50:24
	5,44114,34424	179,57745	170,62779	2,48700,4236	25,58886	
83	95013,54594,77977	3 04689,31615	3 20679,87055	9,97778,55264,5727	10,48385,72261	49:48
	5,44403,77205	179,38655	170,43664	2,48846,9675	25,57672	
82	95008,10191,00772	3 04509,92960	3 20509,43391	9,97776,06417,6052	10,48360,14589	49:12
	5,44693,18328	179,19597	170,24582	2,48993,5284	25,56460	
81	95002,65497,82444	3 04330,73363	3 20339,18809	9,97773,57424,0768	10,48334,58129	48:36
	5,44982,57791	179,00572	170,05530	2,49140,1059	25,55248	
80	94997,20515,24653	3 04151,72791	3 20169,13279	9,97771,08283,9709	10,48309,02881	48: 0
	5,45271,95595	178,81577	169,86511	2,49286,7003	25,54039	
79	94991,75243,29058	3 03972,91214	3 19999,26768	9,97768,58997,2706	10,48283,48842	47:24
	5,45561,31738	178,62613	169,67522	2,49433,3116	25,52831	
78	94986,29681,97320	3 03794,28601	3 19829,59246	9,97766,09563,9590	10,48257,96011	46:48
	5,45850,66217	178,43681	169,48565	2,49579,9396	25,51625	
77	94980,83831,31103	3 03615,84920	3 19660,10681	9,97763,59984,0194	10,48232,44386	46:12
	5,46139,99036	178,24780	169,29639	2,49726,5846	25,50419	
76	94975,37691,32067	3 03437,60140	3 19490,81042	9,97761,10257,4348	10,48206,93967	45:36
	5,46429,30190	178,05910	169,10743	2,49873,2463	25,49215	
75	94969,91262,01877	3 03259,54230	3 19321,70299	9,97758,60384,1885	10,48181,44752	45: 0
	5,46718,59680	177,87071	168,91880	2,50019,9251	25,48013	
74	94964,44543,42197	3 03081,67159	3 19152,78419	9,97756,10364,2634	10,48155,96739	44:24
	5,47007,87503	177,68263	168,73047	2,50166,6205	25,46813	
73	94958,97535,54694	3 02903,98896	3 18984,05372	9,97753,60197,6429	10,48130,49926	43:48
	5,47297,13662	177,49486	168,54244	2,50313,3331	25,45613	
72	94953,50238,41032	3 02726,49410	3 18815,51128	9,97751,09884,3098	10,48105,04313	43:12
	5,47586,38153	177,30740	168,35473	2,50460,0624	25,44415	
71	94948,02652,02879	3 02549,18670	3 18647,15655	9,97748,59424,2474	10,48079,59898	42:36
	5,47875,60975	177,12024	168,16733	2,50606,8088	25,43218	
70	94942,54776,41904	3 02372,06646	3 18478,98922	9,97746,08817,4386	10,48054,16680	42: 0
	5,48164,82129	176,93339	167,98022	2,50753,5719	25,42024	
69	94937,06611,59775	3 02195,13307	3 18311,00900	9,97743,58063,8667	10,48028,74656	41:24
	5,48454,01614	176,74686	167,79343	2,50900,3522	25,40829	
68	94931,58157,58161	3 02018,38621	3 18143,21557	9,97741,07163,5145	10,48003,33827	40:48
	5,48743,19426	176,56061	167,60695	2,51047,1493	25,39638	
67	94926,09414,38735	3 01841,82560	3 17975,60862	9,97738,56116,3652	10,47977,94189	40:12
	5,49032,35569	176,37469	167,42076	2,51193,9634	25,38447	

GRAD. 71.

18. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	31448,95309,20899	33129,93479	1 05345,11180	9,49760,61927,4167	9,52022,05811	19:48
	16,56724,98096	19,37008	6,09329	22,87252,8199	25,38447	
34	31465,52034,18995	33149,30487	1 05351,20509	9,49783,49180,2366	9,52047,44258	20:24
	16,56629,13151	19,37231	6,09720	22,85916,6268	25,37257	
35	31482,08663,32146	33168,67718	1 05357,30229	9,49806,35096,8634	9,52072,81515	21: 0
	16,56533,23159	19,37456	6,10112	22,84581,8393	25,36070	
36	31498,65196,55305	33188,05174	1 05363,40341	9,49829,19678,7027	9,52098,17585	21:36
	16,56437,28120	19,37680	6,10504	22,83248,4556	25,34883	
37	31515,21633,83425	33207,42854	1 05369,50845	9,49852,02927,1583	9,52123,52468	22:12
	16,56341,28037	19,37905	6,10895	22,81916,4730	25,33698	
38	31531,77975,11462	33226,80759	1 05375,61740	9,49874,84843,6313	9,52148,86166	22:48
	16,56245,22908	19,38130	6,11287	22,80585,8895	25,32514	
39	31548,34220,34370	33246,18889	1 05381,73027	9,49897,65429,5208	9,52174,18680	23:24
	16,56149,12732	19,38354	6,11680	22,79256,7027	25,31332	
40	31564,90369,47102	33265,57243	1 05387,84707	9,49920,44686,2235	9,52199,50012	24: 0
	16,56052,97514	19,38580	6,12071	22,77928,9104	25,30151	
41	31581,46422,44616	33284,95823	1 05393,96778	9,49943,22615,1339	9,52224,80163	24:36
	16,55956,77249	19,38805	6,12463	22,76602,5101	25,28971	
42	31598,02379,21865	33304,34628	1 05400,09241	9,49965,99217,6440	9,52250,09134	25:12
	16,55860,51941	19,39030	6,12856	22,75277,4998	25,27794	
43	31614,58239,73806	33323,73658	1 05406,22097	9,49988,74495,1438	9,52275,36928	25:48
	16,55764,21588	19,39256	6,13248	22,73953,8771	25,26617	
44	31631,14003,95394	33343,12914	1 05412,35345	9,50011,48449,0209	9,52300,63545	26:24
	16,55667,86192	19,39482	6,13641	22,72631,6397	25,25441	
45	31647,69671,81586	33362,52396	1 05418,48986	9,50034,21080,6606	9,52325,88986	27: 0
	16,55571,45752	19,39707	6,14033	22,71310,7855	25,24268	
46	31664,25243,27338	33381,92103	1 05424,63019	9,50056,92391,4461	9,52351,13254	27:36
	16,55475,00270	19,39934	6,14427	22,69991,3121	25,23096	
47	31680,80718,27608	33401,32037	1 05430,77446	9,50079,62382,7582	9,52376,36350	28:12
	16,55378,49744	19,40159	6,14818	22,68673,2174	25,21924	
48	31697,36096,77352	33420,72196	1 05436,92264	9,50102,31055,9756	9,52401,58274	28:48
	16,55281,94175	19,40386	6,15212	22,67356,4990	25,20755	
49	31713,91378,71527	33440,12582	1 05443,07476	9,50124,98412,4746	9,52426,79029	29:24
	16,55185,33565	19,40613	6,15605	22,66041,1548	25,19586	
50	31730,46564,05092	33459,53195	1 05449,23081	9,50147,64453,6294	9,52451,98615	30: 0
	16,55088,67913	19,40839	6,15998	22,64727,1824	25,18420	
51	31747,01652,73005	33478,94034	1 05455,39079	9,50170,29180,8118	9,52477,17035	30:36
	16,54991,97218	19,41066	6,16391	22,63414,5798	25,17254	
52	31763,56644,70223	33498,35100	1 05461,55470	9,50192,92595,3916	9,52502,34289	31:12
	16,54895,21482	19,41293	6,16785	22,62103,3447	25,16090	
53	31780,11539,91705	33517,76393	1 05467,72255	9,50215,54698,7363	9,52527,50379	31:48
	16,54798,40706	19,41521	6,17178	22,60793,4747	25,14927	
54	31796,66338,32411	33537,17914	1 05473,89433	9,50238,15492,2110	9,52552,65306	32:24
	16,54701,54888	19,41747	6,17571	22,59484,9678	25,13766	
55	31813,21039,87299	33556,59661	1 05480,07004	9,50260,74977,1788	9,52577,79072	33: 0
	16,54604,64030	19,41975	6,17965	22,58177,8218	25,12606	
56	31829,75644,51329	33576,01636	1 05486,24969	9,50283,33155,0006	9,52602,91678	33:36
	16,54507,68132	19,42203	6,18360	22,56872,0344	25,11448	
57	31846,30152,19461	33595,43839	1 05492,43329	9,50305,90027,0350	9,52628,03126	34:12
	16,54410,67194	19,42430	6,18752	22,55567,6035	25,10290	
58	31862,84562,86655	33614,86269	1 05498,62081	9,50328,45594,6385	9,52653,13416	34:48
	16,54313,61216	19,42658	6,19147	22,54264,5267	25,09134	
59	31879,38876,47871	33634,28927	1 05504,81228	9,50350,99859,1652	9,52678,22550	35:24
	16,54216,50199	19,42887	6,19541	22,52962,8020	25,07980	
60	31895,93092,98070	33653,71814	1 05511,00769	9,50373,52821,9672	9,52703,30530	36: 0
	16,54119,34143	19,43114	6,19936	22,51662,4272	25,06827	
61	31912,47212,32213	33673,14928	1 05517,20705	9,50396,04484,3944	9,52728,37357	36:36
	16,54022,13047	19,43343	6,20329	22,50363,4002	25,05675	
62	31929,01234,45260	33692,58271	1 05523,41034	9,50418,54847,7946	9,52753,43032	37:12
	16,53924,86915	19,43572	6,20724	22,49065,7186	25,04525	
63	31945,55159,32175	33712,01843	1 05529,61758	9,50441,03913,5132	9,52778,47557	37:48
	16,53827,55743	19,43800	6,21119	22,47769,3803	25,03376	
64	31962,08986,87918	33731,45643	1 05535,82877	9,50463,51682,8935	9,52803,50933	38:24
	16,53730,19534	19,44030	6,21513	22,46474,3833	25,02228	
65	31978,62717,07452	33750,89673	1 05542,04390	9,50485,98157,2768	9,52828,53161	39: 0
	16,53632,78286	19,44258	6,21907	22,45180,7254	25,01081	
66	31995,16349,85738	33770,33931	1 05548,26297	9,50508,43338,0022	9,52853,54242	39:36
	16,53535,32003	19,44487	6,22303	22,43888,4042	24,99937	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	94926,09414,38735	3 01841,82560	3 17975,60862	9,97738,56116,3652	10,47977,94189	40:12
	5,49032,35569	176,37469	167,42076	2,51193,9634	25,38447	
66	94920,60382,03166	3 01665,45091	3 17808,18786	9,97736,04922,4018	10,47952,55742	39:36
	5,49321,50038	176,18906	167,23488	2,51340,7946	25,37257	
65	94915,11060,53128	3 01489,26185	3 17640,95298	9,97733,53581,6072	10,47927,18485	39: 0
	5,49610,62833	176,00374	167,04930	2,51487,6426	25,36070	
64	94909,61449,90295	3 01313,25811	3 17473,90368	9,97731,02093,9646	10,47901,82415	38:24
	5,49899,73956	175,81871	166,86404	2,51634,5077	25,34883	
63	94904,11550,16339	3 01137,43940	3 17307,03964	9,97728,50459,4569	10,47876,47532	37:48
	5,50188,83402	175,63400	166,67906	2,51781,3899	25,33698	
62	94898,61361,32937	3 00961,80540	3 17140,36058	9,97725,98678,0670	10,47851,13834	37:12
	5,50477,91173	175,44958	166,49439	2,51928,2890	25,32514	
61	94893,10883,41764	3 00786,35582	3 16973,86619	9,97723,46749,7780	10,47825,81320	36:36
	5,50766,97267	175,26547	166,31003	2,52075,2053	25,31332	
60	94887,60116,44497	3 00611,09035	3 16807,55616	9,97720,94674,5727	10,47800,49988	36: 0
	5,51056,01684	175,08165	166,12596	2,52222,1385	25,30151	
59	94882,09060,42813	3 00436,00870	3 16641,43020	9,97718,42452,4342	10,47775,19837	35:24
	5,51345,04420	174,89814	165,94218	2,52369,0888	25,28971	
58	94876,57715,38393	3 00261,11056	3 16475,48802	9,97715,90083,3454	10,47749,90866	34:48
	5,51634,05479	174,71492	165,75872	2,52516,0562	25,27794	
57	94871,06081,32914	3 00086,39564	3 16309,72930	9,97713,37567,2892	10,47724,63072	34:12
	5,51923,04856	174,53200	165,57555	2,52663,0408	25,26617	
56	94865,54158,28058	2 99911,86364	3 16144,15375	9,97710,84904,2484	10,47699,36455	33:36
	5,52212,02553	174,34938	165,39267	2,52810,0423	25,25441	
55	94860,01946,25505	2 99737,51426	3 15978,76108	9,97708,32094,2061	10,47674,11014	33: 0
	5,52500,98568	174,16706	165,21010	2,52957,0610	25,24268	
54	94854,49445,26937	2 99563,34720	3 15813,55098	9,97705,79137,1451	10,47648,86746	32:24
	5,52789,92898	173,98503	165,02781	2,53104,0969	25,23096	
53	94848,96655,34039	2 99389,36217	3 15648,52317	9,97703,26033,0482	10,47623,63650	31:48
	5,53078,85546	173,80331	164,84583	2,53251,1499	25,21924	
52	94843,43576,48493	2 99215,55886	3 15483,67734	9,97700,72781,8983	10,47598,41726	31:12
	5,53367,76508	173,62186	164,66414	2,53398,2200	25,20755	
51	94837,90208,71985	2 99041,93700	3 15319,01320	9,97698,19383,6783	10,47573,20971	30:36
	5,53656,65786	173,44073	164,48275	2,53545,3073	25,19586	
50	94832,36552,06199	2 98868,49627	3 15154,53045	9,97695,65838,3710	10,47548,01385	30: 0
	5,53945,53376	173,25987	164,30164	2,53692,4118	25,18420	
49	94826,82606,52823	2 98695,23640	3 14990,22881	9,97693,12145,9592	10,47522,82965	29:24
	5,54234,39278	173,07933	164,12083	2,53839,5335	25,17254	
48	94821,28372,13545	2 98522,15707	3 14826,10798	9,97690,58306,4257	10,47497,65711	28:48
	5,54523,23494	172,89906	163,94032	2,53986,6723	25,16090	
47	94815,73848,90051	2 98349,25801	3 14662,16766	9,97688,04319,7534	10,47472,49621	28:12
	5,54812,06019	172,71909	163,76009	2,54133,8284	25,14927	
46	94810,19036,84032	2 98176,53892	3 14498,40757	9,97685,50185,9250	10,47447,34694	27:36
	5,55100,86855	172,53941	163,58016	2,54281,0016	25,13766	
45	94804,63935,97177	2 98003,99951	3 14334,82741	9,97682,95904,9234	10,47422,20928	27: 0
	5,55389,65999	172,36003	163,40052	2,54428,1922	25,12606	
44	94799,08546,31178	2 97831,63948	3 14171,42689	9,97680,41476,7312	10,47397,08322	26:24
	5,55678,43452	172,18093	163,22116	2,54575,4000	25,11448	
43	94793,52867,87726	2 97659,45855	3 14008,20573	9,97677,86901,3312	10,47371,96874	25:48
	5,55967,19212	172,00212	163,04210	2,54722,6250	25,10290	
42	94787,96900,68514	2 97487,45643	3 13845,16363	9,97675,32178,7062	10,47346,86584	25:12
	5,56255,93278	171,82360	162,86333	2,54869,8674	25,09134	
41	94782,40644,75236	2 97315,63283	3 13682,30030	9,97672,77308,8388	10,47321,77450	24:36
	5,56544,65650	171,64537	162,68484	2,55017,1269	25,07980	
40	94776,84100,09586	2 97143,98746	3 13519,61546	9,97670,22291,7119	10,47296,69470	24: 0
	5,56833,36327	171,46743	162,50663	2,55164,4038	25,06827	
39	94771,27266,73259	2 96972,52003	3 13357,10883	9,97667,67127,3081	10,47271,62643	23:24
	5,57122,05308	171,28978	162,32873	2,55311,6980	25,05675	
38	94765,70144,67951	2 96801,23025	3 13194,78010	9,97665,11815,6101	10,47246,56968	22:48
	5,57410,72591	171,11240	162,15110	2,55459,0095	25,04525	
37	94760,12733,95360	2 96630,11785	3 13032,62900	9,97662,56356,6006	10,47221,52443	22:12
	5,57699,38176	170,93532	161,97376	2,55606,3383	25,03376	
36	94754,55034,57184	2 96459,18253	3 12870,65524	9,97660,00750,2623	10,47196,49067	21:36
	5,57988,02063	170,75852	161,79671	2,55753,6845	25,02228	
35	94748,97046,55121	2 96288,42401	3 12708,85853	9,97657,44996,5778	10,47171,46839	21: 0
	5,58276,64250	170,58200	161,61993	2,55901,0481	25,01081	
34	94743,38769,90871	2 96117,84201	3 12547,23860	9,97654,89095,5297	10,47146,45758	20:24
	5,58565,24736	170,40578	161,44345	2,56048,4290	24,99937	

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18. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	32011,69885,17741	33789,78418	1 05554,48600	9,50530,87226,4064	9,52878,54179	40:12
	16,53437,80682	19,44717	6,22698	22,42597,4179	24,98794	
68	32028,23322,98423	33809,23135	1 05560,71298	9,50553,29823,8243	9,52903,52973	40:48
	16,53340,24324	19,44947	6,23093	22,41307,7640	24,97651	
69	32044,76663,22747	33828,68082	1 05566,94391	9,50575,71131,5883	9,52928,50624	41:24
	16,53242,62929	19,45176	6,23488	22,40019,4407	24,96510	
70	32061,29905,85676	33848,13258	1 05573,17879	9,50598,11151,0290	9,52953,47134	42: 0
	16,53144,96500	19,45405	6,23883	22,38732,4456	24,95370	
71	32077,83050,82176	33867,58663	1 05579,41762	9,50620,49883,4746	9,52978,42504	42:36
	16,53047,25033	19,45636	6,24278	22,37446,7768	24,94233	
72	32094,36098,07209	33887,04299	1 05585,66040	9,50642,87330,2514	9,53003,36737	43:12
	16,52949,48533	19,45866	6,24674	22,36162,4320	24,93095	
73	32110,89047,55742	33906,50165	1 05591,90714	9,50665,23492,6834	9,53028,29832	43:48
	16,52851,66995	19,46097	6,25070	22,34879,4090	24,91960	
74	32127,41899,22737	33925,96262	1 05598,15784	9,50687,58372,0924	9,53053,21792	44:24
	16,52753,80425	19,46327	6,25466	22,33597,7059	24,90826	
75	32143,94653,03162	33945,42589	1 05604,41250	9,50709,91969,7983	9,53078,12618	45: 0
	16,52655,88818	19,46557	6,25861	22,32317,3206	24,89693	
76	32160,47308,91980	33964,89146	1 05610,67111	9,50732,24287,1189	9,53103,02311	45:36
	16,52557,92178	19,46788	6,26257	22,31038,2508	24,88561	
77	32176,99866,84158	33984,35934	1 05616,93368	9,50754,55325,3697	9,53127,90872	46:12
	16,52459,90503	19,47020	6,26653	22,29760,4944	24,87432	
78	32193,52326,74661	34003,82954	1 05623,20021	9,50776,85085,8641	9,53152,78304	46:48
	16,52361,83796	19,47250	6,27050	22,28484,0494	24,86302	
79	32210,04688,58457	34023,30204	1 05629,47071	9,50799,13569,9135	9,53177,64606	47:24
	16,52263,72054	19,47482	6,27445	22,27208,9138	24,85175	
80	32226,56952,30511	34042,77686	1 05635,74516	9,50821,40778,8273	9,53202,49781	48: 0
	16,52165,55280	19,47713	6,27842	22,25935,0854	24,84049	
81	32243,09117,85791	34062,25399	1 05642,02358	9,50843,66713,9127	9,53227,33830	48:36
	16,52067,33473	19,47944	6,28239	22,24662,5620	24,82923	
82	32259,61185,19264	34081,73343	1 05648,30597	9,50865,91376,4747	9,53252,16753	49:12
	16,51969,06632	19,48177	6,28635	22,23391,3416	24,81801	
83	32276,13154,25896	34101,21520	1 05654,59232	9,50888,14767,8163	9,53276,98554	49:48
	16,51870,74761	19,48408	6,29032	22,22121,4223	24,80678	
84	32292,65025,00657	34120,69928	1 05660,88264	9,50910,36889,2386	9,53301,79232	50:24
	16,51772,37858	19,48640	6,29428	22,20852,8017	24,79557	
85	32309,16797,38515	34140,18568	1 05667,17692	9,50932,57742,0403	9,53326,58789	51: 0
	16,51673,95922	19,48873	6,29826	22,19585,4781	24,78437	
86	32325,68471,34437	34159,67441	1 05673,47518	9,50954,77327,5184	9,53351,37226	51:36
	16,51575,48955	19,49105	6,30222	22,18319,4491	24,77319	
87	32342,20046,83392	34179,16546	1 05679,77740	9,50976,95646,9675	9,53376,14545	52:12
	16,51476,96958	19,49338	6,30620	22,17054,7128	24,76202	
88	32358,71523,80350	34198,65884	1 05686,08360	9,50999,12701,6803	9,53400,90747	52:48
	16,51378,39929	19,49570	6,31017	22,15791,2672	24,75087	
89	32375,22902,20279	34218,15454	1 05692,39377	9,51021,28492,9475	9,53425,65834	53:24
	16,51279,77870	19,49803	6,31414	22,14529,1101	24,73972	
90	32391,74181,98149	34237,65257	1 05698,70791	9,51043,43022,0576	9,53450,39806	54: 0
	16,51181,10782	19,50037	6,31812	22,13268,2395	24,72859	
91	32408,25363,08931	34257,15294	1 05705,02603	9,51065,56290,2971	9,53475,12665	54:36
	16,51082,38663	19,50269	6,32209	22,12008,6535	24,71747	
92	32424,76445,47594	34276,65563	1 05711,34812	9,51087,68298,9506	9,53499,84412	55:12
	16,50983,61516	19,50503	6,32607	22,10750,3499	24,70637	
93	32441,27429,09110	34296,16066	1 05717,67419	9,51109,79049,3005	9,53524,55049	55:48
	16,50884,79338	19,50736	6,33005	22,09493,3266	24,69528	
94	32457,78313,88448	34315,66802	1 05724,00424	9,51131,88542,6271	9,53549,24577	56:24
	16,50785,92131	19,50970	6,33402	22,08237,5819	24,68420	
95	32474,29099,80579	34335,17772	1 05730,33826	9,51153,96780,2090	9,53573,92997	57: 0
	16,50686,99897	19,51204	6,33801	22,06983,1133	24,67313	
96	32490,79786,80476	34354,68976	1 05736,67627	9,51176,03763,3223	9,53598,60310	57:36
	16,50588,02635	19,51438	6,34199	22,05729,9193	24,66208	
97	32507,30374,83111	34374,20414	1 05743,01826	9,51198,09493,2416	9,53623,26518	58:12
	16,50489,00343	19,51672	6,34597	22,04477,9974	24,65104	
98	32523,80863,83454	34393,72086	1 05749,36423	9,51220,13971,2390	9,53647,91622	58:48
	16,50389,93024	19,51906	6,34995	22,03227,3459	24,64001	
99	32540,31253,76478	34413,23992	1 05755,71418	9,51242,17198,5849	9,53672,55623	59:24
	16,50290,80679	19,52141	6,35394	22,01977,9627	24,62900	
100	32556,81544,57157	34432,76133	1 05762,06812	9,51264,19176,5476	9,53697,18523	60: 0
	16,50191,63305	19,52375	6,35792	22,00729,8458	24,61799	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	94737,80204,66135	2 95947,43623	3 12385,79515	9,97652,33047,1007	10,47121,45821	19:48
	5,58853,83521	170,22982	161,26724	2,56195,8273	24,98794	
32	94732,21350,82614	2 95777,20641	3 12224,52791	9,97649,76851,2734	10,47096,47027	19:12
	5,59142,40603	170,05417	161,09132	2,56343,2429	24,97651	
31	94726,62208,42011	2 95607,15224	3 12063,43659	9,97647,20508,0305	10,47071,49376	18:36
	5,59430,95982	169,87878	160,91568	2,56490,6761	24,96510	
30	94721,02777,46029	2 95437,27346	3 11902,52091	9,97644,64017,3544	10,47046,52866	18: 0
	5,59719,49657	169,70368	160,74032	2,56638,1265	24,95370	
29	94715,43057,96372	2 95267,56978	3 11741,78059	9,97642,07379,2279	10,47021,57496	17:24
	5,60008,01628	169,52886	160,56525	2,56785,5945	24,94233	
28	94709,83049,94744	2 95098,04092	3 11581,21534	9,97639,50593,6334	10,46996,63263	16:48
	5,60296,51891	169,35432	160,39045	2,56933,0798	24,93095	
27	94704,22753,42853	2 94928,68660	3 11420,82489	9,97636,93660,5536	10,46971,70168	16:12
	5,60585,00449	169,18006	160,21593	2,57080,5826	24,91960	
26	94698,62168,42404	2 94759,50654	3 11260,60896	9,97634,36579,9710	10,46946,78208	15:36
	5,60873,47298	169,00609	160,04169	2,57228,1030	24,90826	
25	94693,01294,95106	2 94590,50045	3 11100,56727	9,97631,79351,8680	10,46921,87382	15: 0
	5,61161,92440	168,83237	159,86773	2,57375,6406	24,89693	
24	94687,40133,02666	2 94421,66808	3 10940,69954	9,97629,21976,2274	10,46896,97689	14:24
	5,61450,35871	168,65896	159,69404	2,57523,1960	24,88561	
23	94681,78682,66795	2 94253,00912	3 10781,00550	9,97626,64453,0314	10,46872,09128	13:48
	5,61738,77594	168,48581	159,52065	2,57670,7686	24,87432	
22	94676,16943,89201	2 94084,52331	3 10621,48485	9,97624,06782,2628	10,46847,21696	13:12
	5,62027,17603	168,31293	159,34751	2,57818,3590	24,86302	
21	94670,54916,71598	2 93916,21038	3 10462,13734	9,97621,48963,9038	10,46822,35394	12:36
	5,62315,55902	168,14035	159,17466	2,57965,9667	24,85175	
20	94664,92601,15696	2 93748,07003	3 10302,96268	9,97618,90997,9371	10,46797,50219	12: 0
	5,62603,92487	167,96802	159,00208	2,58113,5920	24,84049	
19	94659,29997,23209	2 93580,10201	3 10143,96060	9,97616,32884,3451	10,46772,66170	11:24
	5,62892,27359	167,79598	158,82978	2,58261,2349	24,82923	
18	94653,67104,95850	2 93412,30603	3 09985,13082	9,97613,74623,1102	10,46747,83247	10:48
	5,63180,60515	167,62422	158,65776	2,58408,8954	24,81801	
17	94648,03924,35335	2 93244,68181	3 09826,47306	9,97611,16214,2148	10,46723,01446	10:12
	5,63468,91958	167,45271	158,48599	2,58556,5733	24,80678	
16	94642,40455,43377	2 93077,22910	3 09667,98707	9,97608,57657,6415	10,46698,20768	9:36
	5,63757,21682	167,28150	158,31452	2,58704,2689	24,79557	
15	94636,76698,21695	2 92909,94760	3 09509,67255	9,97605,98953,3726	10,46673,41211	9: 0
	5,64045,49690	167,11055	158,14330	2,58851,9821	24,78437	
14	94631,12652,72005	2 92742,83705	3 09351,52925	9,97603,40101,3905	10,46648,62774	8:24
	5,64333,75979	166,93987	157,97237	2,58999,7129	24,77319	
13	94625,48318,96026	2 92575,89718	3 09193,55688	9,97600,81101,6776	10,46623,85455	7:48
	5,64622,00550	166,76946	157,80171	2,59147,4613	24,76202	
12	94619,83696,95476	2 92409,12772	3 09035,75517	9,97598,21954,2163	10,46599,09253	7:12
	5,64910,23401	166,59933	157,63131	2,59295,2274	24,75087	
11	94614,18786,72075	2 92242,52839	3 08878,12386	9,97595,62658,9889	10,46574,34166	6:36
	5,65198,44530	166,42946	157,46118	2,59443,0111	24,73972	
10	94608,53588,27545	2 92076,09893	3 08720,66268	9,97593,03215,9778	10,46549,60194	6: 0
	5,65486,63938	166,25987	157,29133	2,59590,8124	24,72859	
9	94602,88101,63607	2 91909,83906	3 08563,37135	9,97590,43625,1654	10,46524,87335	5:24
	5,65774,81623	166,09054	157,12174	2,59738,6314	24,71747	
8	94597,22326,81984	2 91743,74852	3 08406,24961	9,97587,83886,5340	10,46500,15588	4:48
	5,66062,97586	165,92149	156,95242	2,59886,4681	24,70637	
7	94591,56263,84398	2 91577,82703	3 08249,29719	9,97585,24000,0659	10,46475,44951	4:12
	5,66351,11823	165,75270	156,78338	2,60034,3225	24,69528	
6	94585,89912,72575	2 91412,07433	3 08092,51381	9,97582,63965,7434	10,46450,75423	3:36
	5,66639,24336	165,58417	156,61459	2,60182,1947	24,68420	
5	94580,23273,48239	2 91246,49016	3 07935,89922	9,97580,03783,5487	10,46426,07003	3: 0
	5,66927,35122	165,41593	156,44608	2,60330,0844	24,67313	
4	94574,56346,13117	2 91081,07423	3 07779,45314	9,97577,43453,4643	10,46401,39690	2:24
	5,67215,44182	165,24793	156,27782	2,60477,9921	24,66208	
3	94568,89130,68935	2 90915,82630	3 07623,17532	9,97574,82975,4722	10,46376,73482	1:48
	5,67503,51513	165,08021	156,10985	2,60625,9173	24,65104	
2	94563,21627,17422	2 90750,74609	3 07467,06547	9,97572,22349,5549	10,46352,08378	1:12
	5,67791,57116	164,91276	155,94212	2,60773,8603	24,64001	
1	94557,53835,60306	2 90585,83333	3 07311,12335	9,97569,61575,6946	10,46327,44377	0:36
	5,68079,60989	164,74556	155,77467	2,60921,8212	24,62900	
0	94551,85755,99317	2 90421,08777	3 07155,34868	9,97567,00653,8734	10,46302,81477	0: 0
	5,68367,63132	164,57864	155,60749	2,61069,7998	24,61799	

GRAD. 71.

19. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
0	32556,81544,57157	34432,76133	1 05762,06812	9,51264,19176,5476	9,53697,18523	0: 0
	16,50191,63305	19,52375	6,35792	22,00729,8458	24,61799	
1	32573,31736,20462	34452,28508	1 05768,42604	9,51286,19906,3934	9,53721,80322	0:36
	16,50092,40906	19,52611	6,36191	21,99482,9932	24,60701	
2	32589,81828,61368	34471,81119	1 05774,78795	9,51308,19389,3866	9,53746,41023	1:12
	16,49993,13479	19,52845	6,36590	21,98237,4029	24,59603	
3	32606,31821,74847	34491,33964	1 05781,15385	9,51330,17626,7895	9,53771,00626	1:48
	16,49893,81026	19,53080	6,36989	21,96993,0728	24,58507	
4	32622,81715,55873	34510,87044	1 05787,52374	9,51352,14619,8623	9,53795,59133	2:24
	16,49794,43549	19,53316	6,37388	21,95750,0011	24,57412	
5	32639,31509,99422	34530,40360	1 05793,89762	9,51374,10369,8634	9,53820,16545	3: 0
	16,49695,01044	19,53551	6,37786	21,94508,1858	24,56318	
6	32655,81205,00466	34549,93911	1 05800,27548	9,51396,04878,0492	9,53844,72863	3:36
	16,49595,53515	19,53787	6,38187	21,93267,6247	24,55226	
7	32672,30800,53981	34569,47698	1 05806,65735	9,51417,98145,6739	9,53869,28089	4:12
	16,49496,00961	19,54022	6,38585	21,92028,3161	24,54134	
8	32688,80296,54942	34589,01720	1 05813,04320	9,51439,90173,9900	9,53893,82223	4:48
	16,49396,43383	19,54259	6,38985	21,90790,2579	24,53045	
9	32705,29692,98325	34608,55979	1 05819,43305	9,51461,80964,2479	9,53918,35268	5:24
	16,49296,80779	19,54494	6,39384	21,89553,4481	24,51956	
10	32721,78989,79104	34628,10473	1 05825,82689	9,51483,70517,6960	9,53942,87224	6: 0
	16,49197,13152	19,54731	6,39784	21,88317,8848	24,50868	
11	32738,28186,92256	34647,65204	1 05832,22473	9,51505,58835,5808	9,53967,38092	6:36
	16,49097,40501	19,54967	6,40184	21,87083,5661	24,49783	
12	32754,77284,32757	34667,20171	1 05838,62657	9,51527,45919,1469	9,53991,87875	7:12
	16,48997,62827	19,55204	6,40584	21,85850,4898	24,48697	
13	32771,26281,95584	34686,75375	1 05845,03241	9,51549,31769,6367	9,54016,36572	7:48
	16,48897,80129	19,55441	6,40984	21,84618,6542	24,47614	
14	32787,75179,75713	34706,30816	1 05851,44225	9,51571,16388,2909	9,54040,84186	8:24
	16,48797,92409	19,55677	6,41384	21,83388,0573	24,46531	
15	32804,23977,68122	34725,86493	1 05857,85609	9,51592,99776,3482	9,54065,30717	9: 0
	16,48697,99666	19,55915	6,41784	21,82158,6971	24,45451	
16	32820,72675,67788	34745,42408	1 05864,27393	9,51614,81935,0453	9,54089,76168	9:36
	16,48598,01901	19,56152	6,42184	21,80930,5717	24,44370	
17	32837,21273,69689	34764,98560	1 05870,69577	9,51636,62865,6170	9,54114,20538	10:12
	16,48497,99113	19,56389	6,42585	21,79703,6791	24,43292	
18	32853,69771,68802	34784,54949	1 05877,12162	9,51658,42569,2961	9,54138,63830	10:48
	16,48397,91306	19,56627	6,42986	21,78478,0175	24,42214	
19	32870,18169,60108	34804,11576	1 05883,55148	9,51680,21047,3136	9,54163,06044	11:24
	16,48297,78475	19,56864	6,43386	21,77253,5849	24,41139	
20	32886,66467,38583	34823,68440	1 05889,98534	9,51701,98300,8985	9,54187,47183	12: 0
	16,48197,60625	19,57103	6,43787	21,76030,3793	24,40063	
21	32903,14664,99208	34843,25543	1 05896,42321	9,51723,74331,2778	9,54211,87246	12:36
	16,48097,37753	19,57340	6,44188	21,74808,3989	24,38990	
22	32919,62762,36961	34862,82883	1 05902,86509	9,51745,49139,6767	9,54236,26236	13:12
	16,47997,09861	19,57579	6,44589	21,73587,6418	24,37918	
23	32936,10759,46822	34882,40462	1 05909,31098	9,51767,22727,3185	9,54260,64154	13:48
	16,47896,76948	19,57817	6,44990	21,72368,1060	24,36846	
24	32952,58656,23770	34901,98279	1 05915,76088	9,51788,95095,4245	9,54285,01000	14:24
	16,47796,39017	19,58055	6,45391	21,71149,7896	24,35776	
25	32969,06452,62787	34921,56334	1 05922,21479	9,51810,66245,2141	9,54309,36776	15: 0
	16,47695,96066	19,58294	6,45793	21,69932,6907	24,34708	
26	32985,54148,58853	34941,14628	1 05928,67272	9,51832,36177,9048	9,54333,71484	15:36
	16,47595,48095	19,58534	6,46194	21,68716,8076	24,33640	
27	33002,01744,06948	34960,73162	1 05935,13466	9,51854,04894,7124	9,54358,05124	16:12
	16,47494,95106	19,58772	6,46596	21,67502,1380	24,32575	
28	33018,49239,02054	34980,31934	1 05941,60062	9,51875,72396,8504	9,54382,37699	16:48
	16,47394,37097	19,59011	6,46997	21,66288,6804	24,31509	
29	33034,96633,39151	34999,90945	1 05948,07059	9,51897,38685,5308	9,54406,69208	17:24
	16,47293,74072	19,59251	6,47399	21,65076,4326	24,30445	
30	33051,43927,13223	35019,50196	1 05954,54458	9,51919,03761,9634	9,54430,99653	18: 0
	16,47193,06028	19,59490	6,47801	21,63865,3931	24,29383	
31	33067,91120,19251	35039,09686	1 05961,02259	9,51940,67627,3565	9,54455,29036	18:36
	16,47092,32965	19,59730	6,48203	21,62655,5596	24,28322	
32	33084,38212,52216	35058,69416	1 05967,50462	9,51962,30282,9161	9,54479,57358	19:12
	16,46991,54887	19,59970	6,48606	21,61446,9306	24,27261	
33	33100,85204,07103	35078,29386	1 05973,99068	9,51983,91729,8467	9,54503,84619	19:48
	16,46890,71790	19,60209	6,49007	21,60239,5039	24,26203	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
100	94551,85755,99317	2 90421,08777	3 07155,34868	9,97567,00653,8734	10,46302,81477	60: 0
	5,68367,63132	164,57864	155,60749	2,61069,7998	24,61799	
99	94546,17388,36185	2 90256,50913	3 06999,74119	9,97564,39584,0736	10,46278,19678	59:24
	5,68655,63544	164,41197	155,44055	2,61217,7962	24,60701	
98	94540,48732,72641	2 90092,09716	3 06844,30064	9,97561,78366,2774	10,46253,58977	58:48
	5,68943,62223	164,24557	155,27389	2,61365,8104	24,59603	
97	94534,79789,10418	2 89927,85159	3 06689,02675	9,97559,17000,4670	10,46228,99374	58:12
	5,69231,59169	164,07943	155,10749	2,61513,8424	24,58507	
96	94529,10557,51249	2 89763,77216	3 06533,91926	9,97556,55486,6246	10,46204,40867	57:36
	5,69519,54381	163,91355	154,94135	2,61661,8922	24,57412	
95	94523,41037,96868	2 89599,85861	3 06378,97791	9,97553,93824,7324	10,46179,83455	57: 0
	5,69807,47858	163,74794	154,77547	2,61809,9600	24,56318	
94	94517,71230,49010	2 89436,11067	3 06224,20244	9,97551,32014,7724	10,46155,27137	56:24
	5,70095,39600	163,58258	154,60986	2,61958,0454	24,55226	
93	94512,01135,09410	2 89272,52809	3 06069,59258	9,97548,70056,7270	10,46130,71911	55:48
	5,70383,29605	163,41749	154,44449	2,62106,1489	24,54134	
92	94506,30751,79805	2 89109,11060	3 05915,14809	9,97546,07950,5781	10,46106,17777	55:12
	5,70671,17873	163,25266	154,27940	2,62254,2701	24,53045	
91	94500,60080,61932	2 88945,85794	3 05760,86869	9,97543,45696,3080	10,46081,64732	54:36
	5,70959,04401	163,08808	154,11456	2,62402,4093	24,51956	
90	94494,89121,57531	2 88782,76986	3 05606,75413	9,97540,83293,8987	10,46057,12776	54: 0
	5,71246,89192	162,92376	153,94998	2,62550,5664	24,50868	
89	94489,17874,68339	2 88619,84610	3 05452,80415	9,97538,20743,3323	10,46032,61908	53:24
	5,71534,72241	162,75970	153,78566	2,62698,7414	24,49783	
88	94483,46339,96098	2 88457,08640	3 05299,01849	9,97535,58044,5909	10,46008,12125	52:48
	5,71822,53550	162,59591	153,62159	2,62846,9343	24,48697	
87	94477,74517,42548	2 88294,49049	3 05145,39690	9,97532,95197,6566	10,45983,63428	52:12
	5,72110,33117	162,43235	153,45778	2,62995,1452	24,47614	
86	94472,02407,09431	2 88132,05814	3 04991,93912	9,97530,32202,5114	10,45959,15814	51:36
	5,72398,10941	162,26907	153,29424	2,63143,3739	24,46531	
85	94466,30008,98490	2 87969,78907	3 04838,64488	9,97527,69059,1375	10,45934,69283	51: 0
	5,72685,87021	162,10604	153,13093	2,63291,6207	24,45451	
84	94460,57323,11469	2 87807,68303	3 04685,51395	9,97525,05767,5168	10,45910,23832	50:24
	5,72973,61357	161,94327	152,96790	2,63439,8855	24,44370	
83	94454,84349,50112	2 87645,73976	3 04532,54605	9,97522,42327,6313	10,45885,79462	49:48
	5,73261,33949	161,78074	152,80511	2,63588,1682	24,43292	
82	94449,11088,16163	2 87483,95902	3 04379,74094	9,97519,78739,4631	10,45861,36170	49:12
	5,73549,04792	161,61847	152,64258	2,63736,4689	24,42214	
81	94443,37539,11371	2 87322,34055	3 04227,09836	9,97517,15002,9942	10,45836,93956	48:36
	5,73836,73890	161,45646	152,48030	2,63884,7877	24,41139	
80	94437,63702,37481	2 87160,88409	3 04074,61806	9,97514,51118,2065	10,45812,52817	48: 0
	5,74124,41239	161,29471	152,31828	2,64033,1245	24,40063	
79	94431,89577,96242	2 86999,58938	3 03922,29978	9,97511,87085,0820	10,45788,12754	47:24
	5,74412,06839	161,13319	152,15650	2,64181,4793	24,38990	
78	94426,15165,89403	2 86838,45619	3 03770,14328	9,97509,22903,6027	10,45763,73764	46:48
	5,74699,70690	160,97194	151,99498	2,64329,8521	24,37918	
77	94420,40466,18713	2 86677,48425	3 03618,14830	9,97506,58573,7506	10,45739,35846	46:12
	5,74987,32790	160,81094	151,83372	2,64478,2430	24,36846	
76	94414,65478,85923	2 86516,67331	3 03466,31458	9,97503,94095,5076	10,45714,99000	45:36
	5,75274,93139	160,65018	151,67270	2,64626,6521	24,35776	
75	94408,90203,92784	2 86356,02313	3 03314,64188	9,97501,29468,8555	10,45690,63224	45: 0
	5,75562,51734	160,48969	151,51193	2,64775,0791	24,34708	
74	94403,14641,41050	2 86195,53344	3 03163,12995	9,97498,64693,7764	10,45666,28516	44:24
	5,75850,08578	160,32943	151,35141	2,64923,5243	24,33640	
73	94397,38791,32472	2 86035,20401	3 03011,77854	9,97495,99770,2521	10,45641,94876	43:48
	5,76137,63666	160,16943	151,19115	2,65071,9876	24,32575	
72	94391,62653,68806	2 85875,03458	3 02860,58739	9,97493,34698,2645	10,45617,62301	43:12
	5,76425,16999	160,00968	151,03113	2,65220,4691	24,31509	
71	94385,86228,51807	2 85715,02490	3 02709,55626	9,97490,69477,7954	10,45593,30792	42:36
	5,76712,68578	159,85018	150,87136	2,65368,9685	24,30445	
70	94380,09515,83229	2 85555,17472	3 02558,68490	9,97488,04108,8269	10,45569,00347	42: 0
	5,77000,18398	159,69092	150,71184	2,65517,4863	24,29383	
69	94374,32515,64831	2 85395,48380	3 02407,97306	9,97485,38591,3406	10,45544,70964	41:24
	5,77287,66462	159,53192	150,55256	2,65666,0222	24,28322	
68	94368,55227,98369	2 85235,95188	3 02257,42050	9,97482,72925,3184	10,45520,42642	40:48
	5,77575,12766	159,37315	150,39354	2,65814,5762	24,27261	
67	94362,77652,85603	2 85076,57873	3 02107,02696	9,97480,07110,7422	10,45496,15381	40:12
	5,77862,57312	159,21464	150,23475	2,65963,1484	24,26203	

GRAD. 70.

19. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	33100,85204,07103	35078,29386	1 05973,99068	9,51983,91729,8467	9,54503,84619	19:48
	16,46890,71790	19,60209	6,49007	21,60239,5039	24,26203	
34	33117,32094,78893	35097,89595	1 05980,48075	9,52005,51969,3506	9,54528,10822	20:24
	16,46789,83678	19,60450	6,49410	21,59033,2778	24,25145	
35	33133,78884,62571	35117,50045	1 05986,97485	9,52027,11002,6284	9,54552,35967	21: 0
	16,46688,90548	19,60690	6,49812	21,57828,2505	24,24088	
36	33150,25573,53119	35137,10735	1 05993,47297	9,52048,68830,8789	9,54576,60055	21:36
	16,46587,92403	19,60931	6,50215	21,56624,4200	24,23034	
37	33166,72161,45522	35156,71666	1 05999,97512	9,52070,25455,2989	9,54600,83089	22:12
	16,46486,89242	19,61171	6,50618	21,55421,7846	24,21979	
38	33183,18648,34764	35176,32837	1 06006,48130	9,52091,80877,0835	9,54625,05068	22:48
	16,46385,81066	19,61413	6,51021	21,54220,3422	24,20927	
39	33199,65034,15830	35195,94250	1 06012,99151	9,52113,35097,4257	9,54649,25995	23:24
	16,46284,67873	19,61653	6,51423	21,53020,0912	24,19875	
40	33216,11318,83703	35215,55903	1 06019,50574	9,52134,88117,5169	9,54673,45870	24: 0
	16,46183,49667	19,61894	6,51827	21,51821,0296	24,18825	
41	33232,57502,33370	35235,17797	1 06026,02401	9,52156,39938,5465	9,54697,64695	24:36
	16,46082,26446	19,62136	6,52229	21,50623,1557	24,17775	
42	33249,03584,59816	35254,79933	1 06032,54630	9,52177,90561,7022	9,54721,82470	25:12
	16,45980,98210	19,62377	6,52633	21,49426,4676	24,16728	
43	33265,49565,58026	35274,42310	1 06039,07263	9,52199,39988,1698	9,54745,99198	25:48
	16,45879,64961	19,62619	6,53037	21,48230,9633	24,15681	
44	33281,95445,22987	35294,04929	1 06045,60300	9,52220,88219,1331	9,54770,14879	26:24
	16,45778,26697	19,62860	6,53440	21,47036,6413	24,14635	
45	33298,41223,49684	35313,67789	1 06052,13740	9,52242,35255,7744	9,54794,29514	27: 0
	16,45676,83422	19,63103	6,53843	21,45843,4996	24,13591	
46	33314,86900,33106	35333,30892	1 06058,67583	9,52263,81099,2740	9,54818,43105	27:36
	16,45575,35131	19,63345	6,54247	21,44651,5362	24,12548	
47	33331,32475,68237	35352,94237	1 06065,21830	9,52285,25750,8102	9,54842,55653	28:12
	16,45473,81830	19,63587	6,54652	21,43460,7496	24,11505	
48	33347,77949,50067	35372,57824	1 06071,76482	9,52306,69211,5598	9,54866,67158	28:48
	16,45372,23515	19,63829	6,55055	21,42271,1378	24,10465	
49	33364,23321,73582	35392,21653	1 06078,31537	9,52328,11482,6976	9,54890,77623	29:24
	16,45270,60189	19,64072	6,55459	21,41082,6990	24,09426	
50	33380,68592,33771	35411,85725	1 06084,86996	9,52349,52565,3966	9,54914,87049	30: 0
	16,45168,91850	19,64315	6,55863	21,39895,4316	24,08387	
51	33397,13761,25621	35431,50040	1 06091,42859	9,52370,92460,8282	9,54938,95436	30:36
	16,45067,18500	19,64558	6,56268	21,38709,3334	24,07350	
52	33413,58828,44121	35451,14598	1 06097,99127	9,52392,31170,1616	9,54963,02786	31:12
	16,44965,40140	19,64801	6,56672	21,37524,4030	24,06314	
53	33430,03793,84261	35470,79399	1 06104,55799	9,52413,68694,5646	9,54987,09100	31:48
	16,44863,56767	19,65044	6,57077	21,36340,6383	24,05279	
54	33446,48657,41028	35490,44443	1 06111,12876	9,52435,05035,2029	9,55011,14379	32:24
	16,44761,68385	19,65288	6,57481	21,35158,0377	24,04245	
55	33462,93419,09413	35510,09731	1 06117,70357	9,52456,40193,2406	9,55035,18624	33: 0
	16,44659,74993	19,65531	6,57886	21,33976,5994	24,03213	
56	33479,38078,84406	35529,75262	1 06124,28243	9,52477,74169,8400	9,55059,21837	33:36
	16,44557,76589	19,65776	6,58291	21,32796,3215	24,02182	
57	33495,82636,60995	35549,41038	1 06130,86534	9,52499,06966,1615	9,55083,24019	34:12
	16,44455,73178	19,66019	6,58696	21,31617,2023	24,01152	
58	33512,27092,34173	35569,07057	1 06137,45230	9,52520,38583,3638	9,55107,25171	34:48
	16,44353,64756	19,66263	6,59101	21,30439,2400	24,00122	
59	33528,71445,98929	35588,73320	1 06144,04331	9,52541,69022,6038	9,55131,25293	35:24
	16,44251,51326	19,66507	6,59507	21,29262,4329	23,99095	
60	33545,15697,50255	35608,39827	1 06150,63838	9,52562,98285,0367	9,55155,24388	36: 0
	16,44149,32887	19,66752	6,59911	21,28086,7791	23,98068	
61	33561,59846,83142	35628,06579	1 06157,23749	9,52584,26371,8158	9,55179,22456	36:36
	16,44047,09439	19,66997	6,60317	21,26912,2769	23,97043	
62	33578,03893,92581	35647,73576	1 06163,84066	9,52605,53284,0927	9,55203,19499	37:12
	16,43944,80983	19,67241	6,60723	21,25738,9246	23,96019	
63	33594,47838,73564	35667,40817	1 06170,44789	9,52626,79023,0173	9,55227,15518	37:48
	16,43842,47520	19,67486	6,61129	21,24566,7204	23,94995	
64	33610,91681,21084	35687,08303	1 06177,05918	9,52648,03589,7377	9,55251,10513	38:24
	16,43740,09050	19,67732	6,61534	21,23395,6624	23,93974	
65	33627,35421,30134	35706,76035	1 06183,67452	9,52669,26985,4001	9,55275,04487	39: 0
	16,43637,65571	19,67976	6,61940	21,22225,7490	23,92953	
66	33643,79058,95705	35726,44011	1 06190,29392	9,52690,49211,1491	9,55298,97440	39:36
	16,43535,17087	19,68222	6,62346	21,21056,9784	23,91933	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	94362,77652,85603	2 85076,57873	3 02107,02696	9,97480,07110,7422	10,45496,15381	40:12
	5,77862,57312	159,21464	150,23475	2,65963,1484	24,26203	
66	94356,99790,28291	2 84917,36409	3 01956,79221	9,97477,41147,5938	10,45471,89178	39:36
	5,78150,00097	159,05637	150,07622	2,66111,7388	24,25145	
65	94351,21640,28194	2 84758,30772	3 01806,71599	9,97474,75035,8550	10,45447,64033	39: 0
	5,78437,41122	158,89835	149,91793	2,66260,3475	24,24088	
64	94345,43202,87072	2 84599,40937	3 01656,79806	9,97472,08775,5075	10,45423,39945	38:24
	5,78724,80383	158,74057	149,75988	2,66408,9744	24,23034	
63	94339,64478,06689	2 84440,66880	3 01507,03818	9,97469,42366,5331	10,45399,16911	37:48
	5,79012,17882	158,58303	149,60209	2,66557,6194	24,21979	
62	94333,85465,88807	2 84282,08577	3 01357,43609	9,97466,75808,9137	10,45374,94932	37:12
	5,79299,53618	158,42575	149,44453	2,66706,2827	24,20927	
61	94328,06166,35189	2 84123,66002	3 01207,99156	9,97464,09102,6310	10,45350,74005	36:36
	5,79586,87588	158,26871	149,28721	2,66854,9644	24,19875	
60	94322,26579,47601	2 83965,39131	3 01058,70435	9,97461,42247,6666	10,45326,54130	36: 0
	5,79874,19793	158,11190	149,13015	2,67003,6643	24,18825	
59	94316,46705,27808	2 83807,27941	3 00909,57420	9,97458,75244,0023	10,45302,35305	35:24
	5,80161,50233	157,95534	148,97331	2,67152,3824	24,17775	
58	94310,66543,77575	2 83649,32407	3 00760,60089	9,97456,08091,6199	10,45278,17530	34:48
	5,80448,78903	157,79902	148,81673	2,67301,1188	24,16728	
57	94304,86094,98672	2 83491,52505	3 00611,78416	9,97453,40790,5011	10,45254,00802	34:12
	5,80736,05808	157,64295	148,66039	2,67449,8736	24,15681	
56	94299,05358,92864	2 83333,88210	3 00463,12377	9,97450,73340,6275	10,45229,85121	33:36
	5,81023,30941	157,48711	148,50428	2,67598,6467	24,14635	
55	94293,24335,61923	2 83176,39499	3 00314,61949	9,97448,05741,9808	10,45205,70486	33: 0
	5,81310,54306	157,33152	148,34842	2,67747,4382	24,13591	
54	94287,43025,07617	2 83019,06347	3 00166,27107	9,97445,37994,5426	10,45181,56895	32:24
	5,81597,75899	157,17616	148,19279	2,67896,2479	24,12548	
53	94281,61427,31718	2 82861,88731	3 00018,07828	9,97442,70098,2947	10,45157,44347	31:48
	5,81884,95722	157,02105	148,03741	2,68045,0760	24,11505	
52	94275,79542,35996	2 82704,86626	2 99870,04087	9,97440,02053,2187	10,45133,32842	31:12
	5,82172,13771	156,86617	147,88227	2,68193,9226	24,10465	
51	94269,97370,22225	2 82548,00009	2 99722,15860	9,97437,33859,2961	10,45109,22377	30:36
	5,82459,30047	156,71153	147,72736	2,68342,7874	24,09426	
50	94264,14910,92178	2 82391,28856	2 99574,43124	9,97434,65516,5087	10,45085,12951	30: 0
	5,82746,44548	156,55713	147,57269	2,68491,6707	24,08387	
49	94258,32164,47630	2 82234,73143	2 99426,85855	9,97431,97024,8380	10,45061,04564	29:24
	5,83033,57276	156,40298	147,41826	2,68640,5724	24,07350	
48	94252,49130,90354	2 82078,32845	2 99279,44029	9,97429,28384,2656	10,45036,97214	28:48
	5,83320,68226	156,24904	147,26406	2,68789,4926	24,06314	
47	94246,65810,22128	2 81922,07941	2 99132,17623	9,97426,59594,7730	10,45012,90900	28:12
	5,83607,77400	156,09536	147,11011	2,68938,4311	24,05279	
46	94240,82202,44728	2 81765,98405	2 98985,06612	9,97423,90656,3419	10,44988,85621	27:36
	5,83894,84796	155,94191	146,95638	2,69087,3881	24,04245	
45	94234,98307,59932	2 81610,04214	2 98838,10974	9,97421,21568,9538	10,44964,81376	27: 0
	5,84181,90413	155,78869	146,80290	2,69236,3635	24,03213	
44	94229,14125,69519	2 81454,25345	2 98691,30684	9,97418,52332,5903	10,44940,78163	26:24
	5,84468,94251	155,63571	146,64964	2,69385,3575	24,02182	
43	94223,29656,75268	2 81298,61774	2 98544,65720	9,97415,82947,2328	10,44916,75981	25:48
	5,84755,96308	155,48297	146,49663	2,69534,3699	24,01152	
42	94217,44900,78960	2 81143,13477	2 98398,16057	9,97413,13412,8629	10,44892,74829	25:12
	5,85042,96585	155,33045	146,34385	2,69683,4008	24,00122	
41	94211,59857,82375	2 80987,80432	2 98251,81672	9,97410,43729,4621	10,44868,74707	24:36
	5,85329,95078	155,17817	146,19130	2,69832,4502	23,99095	
40	94205,74527,87297	2 80832,62615	2 98105,62542	9,97407,73897,0119	10,44844,75612	24: 0
	5,85616,91790	155,02613	146,03898	2,69981,5182	23,98068	
39	94199,88910,95507	2 80677,60002	2 97959,58644	9,97405,03915,4937	10,44820,77544	23:24
	5,85903,86716	154,87431	145,88689	2,70130,6047	23,97043	
38	94194,03007,08791	2 80522,72571	2 97813,69955	9,97402,33784,8890	10,44796,80501	22:48
	5,86190,79859	154,72274	145,73505	2,70279,7097	23,96019	
37	94188,16816,28932	2 80368,00297	2 97667,96450	9,97399,63505,1793	10,44772,84482	22:12
	5,86477,71216	154,57139	145,58343	2,70428,8333	23,94995	
36	94182,30338,57716	2 80213,43158	2 97522,38107	9,97396,93076,3460	10,44748,89487	21:36
	5,86764,60786	154,42027	145,43203	2,70577,9754	23,93974	
35	94176,43573,96930	2 80059,01131	2 97376,94904	9,97394,22498,3706	10,44724,95513	21: 0
	5,87051,48568	154,26938	145,28088	2,70727,1362	23,92953	
34	94170,56522,48362	2 79904,74193	2 97231,66816	9,97391,51771,2344	10,44701,02560	20:24
	5,87338,34563	154,11873	145,12996	2,70876,3155	23,91933	

GRAD. 70.

19. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	33660,22594,12792	35746,12233	1 06196,91738	9,52711,70268,1275	9,55322,89373	40:12
	16,43432,63596	19,68468	6,62753	21,19889,3491	23,90915	
68	33676,66026,76388	35765,80701	1 06203,54491	9,52732,90157,4766	9,55346,80288	40:48
	16,43330,05099	19,68714	6,63159	21,18722,8588	23,89898	
69	33693,09356,81487	35785,49415	1 06210,17650	9,52754,08880,3354	9,55370,70186	41:24
	16,43227,41595	19,68959	6,63565	21,17557,5064	23,88881	
70	33709,52584,23082	35805,18374	1 06216,81215	9,52775,26437,8418	9,55394,59067	42: 0
	16,43124,73087	19,69205	6,63971	21,16393,2896	23,87867	
71	33725,95708,96169	35824,87579	1 06223,45186	9,52796,42831,1314	9,55418,46934	42:36
	16,43021,99572	19,69452	6,64379	21,15230,2072	23,86852	
72	33742,38730,95741	35844,57031	1 06230,09565	9,52817,58061,3386	9,55442,33786	43:12
	16,42919,21054	19,69698	6,64785	21,14068,2570	23,85840	
73	33758,81650,16795	35864,26729	1 06236,74350	9,52838,72129,5956	9,55466,19626	43:48
	16,42816,37530	19,69945	6,65191	21,12907,4376	23,84829	
74	33775,24466,54325	35883,96674	1 06243,39541	9,52859,85037,0332	9,55490,04455	44:24
	16,42713,49002	19,70192	6,65599	21,11747,7471	23,83818	
75	33791,67180,03327	35903,66866	1 06250,05140	9,52880,96784,7803	9,55513,88273	45: 0
	16,42610,55470	19,70438	6,66006	21,10589,1838	23,82809	
76	33808,09790,58797	35923,37304	1 06256,71146	9,52902,07373,9641	9,55537,71082	45:36
	16,42507,56935	19,70686	6,66413	21,09431,7462	23,81801	
77	33824,52298,15732	35943,07990	1 06263,37559	9,52923,16805,7103	9,55561,52883	46:12
	16,42404,53396	19,70933	6,66821	21,08275,4322	23,80794	
78	33840,94702,69128	35962,78923	1 06270,04380	9,52944,25081,1425	9,55585,33677	46:48
	16,42301,44854	19,71180	6,67228	21,07120,2405	23,79788	
79	33857,37004,13982	35982,50103	1 06276,71608	9,52965,32201,3830	9,55609,13465	47:24
	16,42198,31309	19,71428	6,67635	21,05966,1692	23,78784	
80	33873,79202,45291	36002,21531	1 06283,39243	9,52986,38167,5522	9,55632,92249	48: 0
	16,42095,12763	19,71676	6,68044	21,04813,2165	23,77780	
81	33890,21297,58054	36021,93207	1 06290,07287	9,53007,42980,7687	9,55656,70029	48:36
	16,41991,89213	19,71923	6,68451	21,03661,3809	23,76777	
82	33906,63289,47267	36041,65130	1 06296,75738	9,53028,46642,1496	9,55680,46806	49:12
	16,41888,60662	19,72172	6,68859	21,02510,6606	23,75777	
83	33923,05178,07929	36061,37302	1 06303,44597	9,53049,49152,8102	9,55704,22583	49:48
	16,41785,27109	19,72420	6,69266	21,01361,0540	23,74776	
84	33939,46963,35038	36081,09722	1 06310,13863	9,53070,50513,8642	9,55727,97359	50:24
	16,41681,88556	19,72668	6,69676	21,00212,5592	23,73777	
85	33955,88645,23594	36100,82390	1 06316,83539	9,53091,50726,4234	9,55751,71136	51: 0
	16,41578,45001	19,72917	6,70083	20,99065,1749	23,72780	
86	33972,30223,68595	36120,55307	1 06323,53622	9,53112,49791,5983	9,55775,43916	51:36
	16,41474,96447	19,73166	6,70492	20,97918,8989	23,71782	
87	33988,71698,65042	36140,28473	1 06330,24114	9,53133,47710,4972	9,55799,15698	52:12
	16,41371,42891	19,73415	6,70900	20,96773,7301	23,70787	
88	34005,13070,07933	36160,01888	1 06336,95014	9,53154,44484,2273	9,55822,86485	52:48
	16,41267,84336	19,73664	6,71309	20,95629,6663	23,69793	
89	34021,54337,92269	36179,75552	1 06343,66323	9,53175,40113,8936	9,55846,56278	53:24
	16,41164,20781	19,73913	6,71718	20,94486,7063	23,68799	
90	34037,95502,13050	36199,49465	1 06350,38041	9,53196,34600,5999	9,55870,25077	54: 0
	16,41060,52227	19,74162	6,72126	20,93344,8480	23,67807	
91	34054,36562,65277	36219,23627	1 06357,10167	9,53217,27945,4479	9,55893,92884	54:36
	16,40956,78675	19,74412	6,72536	20,92204,0901	23,66816	
92	34070,77519,43952	36238,98039	1 06363,82703	9,53238,20149,5380	9,55917,59700	55:12
	16,40853,00122	19,74662	6,72944	20,91064,4306	23,65826	
93	34087,18372,44074	36258,72701	1 06370,55647	9,53259,11213,9686	9,55941,25526	55:48
	16,40749,16573	19,74912	6,73354	20,89925,8683	23,64838	
94	34103,59121,60647	36278,47613	1 06377,29001	9,53280,01139,8369	9,55964,90364	56:24
	16,40645,28025	19,75162	6,73764	20,88788,4010	23,63849	
95	34119,99766,88672	36298,22775	1 06384,02765	9,53300,89928,2379	9,55988,54213	57: 0
	16,40541,34479	19,75413	6,74172	20,87652,0275	23,62863	
96	34136,40308,23151	36317,98188	1 06390,76937	9,53321,77580,2654	9,56012,17076	57:36
	16,40437,35936	19,75662	6,74582	20,86516,7460	23,61877	
97	34152,80745,59087	36337,73850	1 06397,51519	9,53342,64097,0114	9,56035,78953	58:12
	16,40333,32396	19,75914	6,74992	20,85382,5548	23,60892	
98	34169,21078,91483	36357,49764	1 06404,26511	9,53363,49479,5662	9,56059,39845	58:48
	16,40229,23860	19,76164	6,75402	20,84249,4522	23,59910	
99	34185,61308,15343	36377,25928	1 06411,01913	9,53384,33729,0184	9,56082,99755	59:24
	16,40125,10326	19,76415	6,75812	20,83117,4368	23,58927	
100	34202,01433,25669	36397,02343	1 06417,77725	9,53405,16846,4552	9,56106,58682	60: 0
	16,40020,91796	19,76666	6,76221	20,81986,5067	23,57946	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	94164,69184,13799	2 79750,62320	2 97086,53820	9,97388,80894,9189	10,44677,10627	19:48
	5,87625,18769	153,96830	144,97925	2,71025,5135	23,90915	
32	94158,81558,95030	2 79596,65490	2 96941,55895	9,97386,09869,4054	10,44653,19712	19:12
	5,87912,01184	153,81811	144,82879	2,71174,7301	23,89898	
31	94152,93646,93846	2 79442,83679	2 96796,73016	9,97383,38694,6753	10,44629,29814	18:36
	5,88198,81808	153,66814	144,67855	2,71323,9653	23,88881	
30	94147,05448,12038	2 79289,16865	2 96652,05161	9,97380,67370,7100	10,44605,40933	18: 0
	5,88485,60641	153,51840	144,52853	2,71473,2191	23,87867	
29	94141,16962,51397	2 79135,65025	2 96507,52308	9,97377,95897,4909	10,44581,53066	17:24
	5,88772,37681	153,36889	144,37876	2,71622,4917	23,86852	
28	94135,28190,13716	2 78982,28136	2 96363,14432	9,97375,24274,9992	10,44557,66214	16:48
	5,89059,12928	153,21961	144,22920	2,71771,7829	23,85840	
27	94129,39131,00788	2 78829,06175	2 96218,91512	9,97372,52503,2163	10,44533,80374	16:12
	5,89345,86380	153,07055	144,07987	2,71921,0927	23,84829	
26	94123,49785,14408	2 78675,99120	2 96074,83525	9,97369,80582,1236	10,44509,95545	15:36
	5,89632,58037	152,92172	143,93076	2,72070,4213	23,83818	
25	94117,60152,56371	2 78523,06948	2 95930,90449	9,97367,08511,7023	10,44486,11727	15: 0
	5,89919,27898	152,77312	143,78189	2,72219,7686	23,82809	
24	94111,70233,28473	2 78370,29636	2 95787,12260	9,97364,36291,9337	10,44462,28918	14:24
	5,90205,95962	152,62475	143,63325	2,72369,1347	23,81801	
23	94105,80027,32511	2 78217,67161	2 95643,48935	9,97361,63922,7990	10,44438,47117	13:48
	5,90492,62228	152,47659	143,48481	2,72518,5194	23,80794	
22	94099,89534,70283	2 78065,19502	2 95500,00454	9,97358,91404,2796	10,44414,66323	13:12
	5,90779,26695	152,32867	143,33662	2,72667,9228	23,79788	
21	94093,98755,43588	2 77912,86635	2 95356,66792	9,97356,18736,3568	10,44390,86535	12:36
	5,91065,89363	152,18096	143,18864	2,72817,3452	23,78784	
20	94088,07689,54225	2 77760,68539	2 95213,47928	9,97353,45919,0116	10,44367,07751	12: 0
	5,91352,50229	152,03348	143,04089	2,72966,7861	23,77780	
19	94082,16337,03996	2 77608,65191	2 95070,43839	9,97350,72952,2255	10,44343,29971	11:24
	5,91639,09296	151,88623	142,89336	2,73116,2460	23,76777	
18	94076,24697,94700	2 77456,76568	2 94927,54503	9,97347,99835,9795	10,44319,53194	10:48
	5,91925,66559	151,73920	142,74605	2,73265,7246	23,75777	
17	94070,32772,28141	2 77305,02648	2 94784,79898	9,97345,26570,2549	10,44295,77417	10:12
	5,92212,22020	151,59239	142,59897	2,73415,2221	23,74776	
16	94064,40560,06121	2 77153,43409	2 94642,20001	9,97342,53155,0328	10,44272,02641	9:36
	5,92498,75676	151,44580	142,45211	2,73564,7383	23,73777	
15	94058,48061,30445	2 77001,98829	2 94499,74790	9,97339,79590,2945	10,44248,28864	9: 0
	5,92785,27527	151,29944	142,30547	2,73714,2734	23,72780	
14	94052,55276,02918	2 76850,68885	2 94357,44243	9,97337,05876,0211	10,44224,56084	8:24
	5,93071,77574	151,15330	142,15905	2,73863,8273	23,71782	
13	94046,62204,25344	2 76699,53555	2 94215,28338	9,97334,32012,1938	10,44200,84302	7:48
	5,93358,25812	151,00737	142,01285	2,74013,4002	23,70787	
12	94040,68845,99532	2 76548,52818	2 94073,27053	9,97331,57998,7936	10,44177,13515	7:12
	5,93644,72245	150,86166	141,86687	2,74162,9918	23,69793	
11	94034,75201,27287	2 76397,66652	2 93931,40366	9,97328,83835,8018	10,44153,43722	6:36
	5,93931,16868	150,71619	141,72112	2,74312,6024	23,68799	
10	94028,81270,10419	2 76246,95033	2 93789,68254	9,97326,09523,1994	10,44129,74923	6: 0
	5,94217,59682	150,57092	141,57558	2,74462,2319	23,67807	
9	94022,87052,50737	2 76096,37941	2 93648,10696	9,97323,35060,9675	10,44106,07116	5:24
	5,94504,00687	150,42588	141,43026	2,74611,8803	23,66816	
8	94016,92548,50050	2 75945,95353	2 93506,67670	9,97320,60449,0872	10,44082,40300	4:48
	5,94790,39879	150,28105	141,28515	2,74761,5476	23,65826	
7	94010,97758,10171	2 75795,67248	2 93365,39155	9,97317,85687,5396	10,44058,74474	4:12
	5,95076,77261	150,13645	141,14028	2,74911,2338	23,64838	
6	94005,02681,32910	2 75645,53603	2 93224,25127	9,97315,10776,3058	10,44035,09636	3:36
	5,95363,12830	149,99206	140,99561	2,75060,9390	23,63849	
5	93999,07318,20080	2 75495,54397	2 93083,25566	9,97312,35715,3668	10,44011,45787	3: 0
	5,95649,46585	149,84788	140,85116	2,75210,6632	23,62863	
4	93993,11668,73495	2 75345,69609	2 92942,40450	9,97309,60504,7036	10,43987,82924	2:24
	5,95935,78525	149,70393	140,70693	2,75360,4064	23,61877	
3	93987,15732,94970	2 75195,99216	2 92801,69757	9,97306,85144,2972	10,43964,21047	1:48
	5,96222,08650	149,56019	140,56291	2,75510,1685	23,60892	
2	93981,19510,86320	2 75046,43197	2 92661,13466	9,97304,09634,1287	10,43940,60155	1:12
	5,96508,36960	149,41666	140,41911	2,75659,9496	23,59910	
1	93975,23002,49360	2 74897,01531	2 92520,71555	9,97301,33974,1791	10,43917,00245	0:36
	5,96794,63452	149,27336	140,27553	2,75809,7497	23,58927	
0	93969,26207,85908	2 74747,74195	2 92380,44002	9,97298,58164,4294	10,43893,41318	0: 0
	5,97080,88125	149,13027	140,13216	2,75959,5690	23,57946	

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20. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
0	34202,01433,25669	36397,02343	1 06417,77725	9,53405,16846,4552	9,56106,58682	0: 0
	16,40020,91796	19,76666	6,76221	20,81986,5067	23,57946	
1	34218,41454,17465	36416,79009	1 06424,53946	9,53425,98832,9619	9,56130,16628	0:36
	16,39916,68272	19,76917	6,76632	20,80856,6606	23,56966	
2	34234,81370,85737	36436,55926	1 06431,30578	9,53446,79689,6225	9,56153,73594	1:12
	16,39812,39751	19,77169	6,77043	20,79727,8966	23,55987	
3	34251,21183,25488	36456,33095	1 06438,07621	9,53467,59417,5191	9,56177,29581	1:48
	16,39708,06235	19,77421	6,77452	20,78600,2130	23,55010	
4	34267,60891,31723	36476,10516	1 06444,85073	9,53488,38017,7321	9,56200,84591	2:24
	16,39603,67725	19,77672	6,77863	20,77473,6086	23,54032	
5	34284,00494,99448	36495,88188	1 06451,62936	9,53509,15491,3407	9,56224,38623	3: 0
	16,39499,24220	19,77924	6,78274	20,76348,0813	23,53057	
6	34300,39994,23668	36515,66112	1 06458,41210	9,53529,91839,4220	9,56247,91680	3:36
	16,39394,75720	19,78177	6,78685	20,75223,6298	23,52083	
7	34316,79388,99388	36535,44289	1 06465,19895	9,53550,67063,0518	9,56271,43763	4:12
	16,39290,22227	19,78428	6,79095	20,74100,2524	23,51109	
8	34333,18679,21615	36555,22717	1 06471,98990	9,53571,41163,3042	9,56294,94872	4:48
	16,39185,63741	19,78682	6,79507	20,72977,9475	23,50137	
9	34349,57864,85356	36575,01399	1 06478,78497	9,53592,14141,2517	9,56318,45009	5:24
	16,39081,00260	19,78933	6,79917	20,71856,7134	23,49165	
10	34365,96945,85616	36594,80332	1 06485,58414	9,53612,85997,9651	9,56341,94174	6: 0
	16,38976,31788	19,79187	6,80329	20,70736,5488	23,48196	
11	34382,35922,17404	36614,59519	1 06492,38743	9,53633,56734,5139	9,56365,42370	6:36
	16,38871,58321	19,79440	6,80740	20,69617,4516	23,47226	
12	34398,74793,75725	36634,38959	1 06499,19483	9,53654,26351,9655	9,56388,89596	7:12
	16,38766,79865	19,79692	6,81152	20,68499,4207	23,46258	
13	34415,13560,55590	36654,18651	1 06506,00635	9,53674,94851,3862	9,56412,35854	7:48
	16,38661,96414	19,79946	6,81564	20,67382,4543	23,45292	
14	34431,52222,52004	36673,98597	1 06512,82199	9,53695,62233,8405	9,56435,81146	8:24
	16,38557,07973	19,80200	6,81975	20,66266,5508	23,44325	
15	34447,90779,59977	36693,78797	1 06519,64174	9,53716,28500,3913	9,56459,25471	9: 0
	16,38452,14540	19,80453	6,82387	20,65151,7085	23,43361	
16	34464,29231,74517	36713,59250	1 06526,46561	9,53736,93652,0998	9,56482,68832	9:36
	16,38347,16116	19,80707	6,82798	20,64037,9261	23,42397	
17	34480,67578,90633	36733,39957	1 06533,29359	9,53757,57690,0259	9,56506,11229	10:12
	16,38242,12702	19,80961	6,83211	20,62925,2018	23,41435	
18	34497,05821,03335	36753,20918	1 06540,12570	9,53778,20615,2277	9,56529,52664	10:48
	16,38137,04297	19,81215	6,83624	20,61813,5342	23,40473	
19	34513,43958,07632	36773,02133	1 06546,96194	9,53798,82428,7619	9,56552,93137	11:24
	16,38031,90903	19,81470	6,84035	20,60702,9215	23,39513	
20	34529,81989,98535	36792,83603	1 06553,80229	9,53819,43131,6834	9,56576,32650	12: 0
	16,37926,72517	19,81724	6,84448	20,59593,3624	23,38553	
21	34546,19916,71052	36812,65327	1 06560,64677	9,53840,02725,0458	9,56599,71203	12:36
	16,37821,49144	19,81978	6,84861	20,58484,8550	23,37595	
22	34562,57738,20196	36832,47305	1 06567,49538	9,53860,61209,9008	9,56623,08798	13:12
	16,37716,20780	19,82234	6,85273	20,57377,3981	23,36638	
23	34578,95454,40976	36852,29539	1 06574,34811	9,53881,18587,2989	9,56646,45436	13:48
	16,37610,87429	19,82488	6,85686	20,56270,9899	23,35682	
24	34595,33065,28405	36872,12027	1 06581,20497	9,53901,74858,2888	9,56669,81118	14:24
	16,37505,49088	19,82744	6,86099	20,55165,6290	23,34726	
25	34611,70570,77493	36891,94771	1 06588,06596	9,53922,30023,9178	9,56693,15844	15: 0
	16,37400,05760	19,82999	6,86513	20,54061,3136	23,33773	
26	34628,07970,83253	36911,77770	1 06594,93109	9,53942,84085,2314	9,56716,49617	15:36
	16,37294,57443	19,83255	6,86925	20,52958,0425	23,32819	
27	34644,45265,40696	36931,61025	1 06601,80034	9,53963,37043,2739	9,56739,82436	16:12
	16,37189,04140	19,83510	6,87338	20,51855,8138	23,31868	
28	34660,82454,44836	36951,44535	1 06608,67372	9,53983,88899,0877	9,56763,14304	16:48
	16,37083,45849	19,83766	6,87753	20,50754,6262	23,30917	
29	34677,19537,90685	36971,28301	1 06615,55125	9,54004,39653,7139	9,56786,45221	17:24
	16,36977,82571	19,84022	6,88165	20,49654,4780	23,29967	
30	34693,56515,73256	36991,12323	1 06622,43290	9,54024,89308,1919	9,56809,75188	18: 0
	16,36872,14307	19,84278	6,88579	20,48555,3679	23,29019	
31	34709,93387,87563	37010,96601	1 06629,31869	9,54045,37863,5598	9,56833,04207	18:36
	16,36766,41056	19,84535	6,88994	20,47457,2941	23,28070	
32	34726,30154,28619	37030,81136	1 06636,20863	9,54065,85320,8539	9,56856,32277	19:12
	16,36660,62820	19,84791	6,89407	20,46360,2552	23,27125	
33	34742,66814,91439	37050,65927	1 06643,10270	9,54086,31681,1091	9,56879,59402	19:48
	16,36554,79598	19,85048	6,89821	20,45264,2496	23,26178	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
100	93969,26207,85908	2 74747,74195	2 92380,44002	9,97298,58164,4294	10,43893,41318	60: 0
	5,97080,88125	149,13027	140,13216	2,75959,5690	23,57946	
99	93963,29126,97783	2 74598,61168	2 92240,30786	9,97295,82204,8604	10,43869,83372	59:24
	5,97367,10981	148,98739	139,98901	2,76109,4072	23,56966	
98	93957,31759,86802	2 74449,62429	2 92100,31885	9,97293,06095,4532	10,43846,26406	58:48
	5,97653,32017	148,84473	139,84607	2,76259,2644	23,55987	
97	93951,34106,54785	2 74300,77956	2 91960,47278	9,97290,29836,1888	10,43822,70419	58:12
	5,97939,51232	148,70228	139,70334	2,76409,1408	23,55010	
96	93945,36167,03553	2 74152,07728	2 91820,76944	9,97287,53427,0480	10,43799,15409	57:36
	5,98225,68625	148,56004	139,56082	2,76559,0362	23,54032	
95	93939,37941,34928	2 74003,51724	2 91681,20862	9,97284,76868,0118	10,43775,61377	57: 0
	5,98511,84196	148,41802	139,41853	2,76708,9507	23,53057	
94	93933,39429,50732	2 73855,09922	2 91541,79009	9,97282,00159,0611	10,43752,08320	56:24
	5,98797,97945	148,27621	139,27644	2,76858,8843	23,52083	
93	93927,40631,52787	2 73706,82301	2 91402,51365	9,97279,23300,1768	10,43728,56237	55:48
	5,99084,09869	148,13461	139,13456	2,77008,8371	23,51109	
92	93921,41547,42918	2 73558,68840	2 91263,37909	9,97276,46291,3397	10,43705,05128	55:12
	5,99370,19968	147,99323	138,99290	2,77158,8089	23,50137	
91	93915,42177,22950	2 73410,69517	2 91124,38619	9,97273,69132,5308	10,43681,54991	54:36
	5,99656,28241	147,85205	138,85144	2,77308,8000	23,49165	
90	93909,42520,94709	2 73262,84312	2 90985,53475	9,97270,91823,7308	10,43658,05826	54: 0
	5,99942,34688	147,71108	138,71021	2,77458,8101	23,48196	
89	93903,42578,60021	2 73115,13204	2 90846,82454	9,97268,14364,9207	10,43634,57630	53:24
	6,00228,39307	147,57034	138,56917	2,77608,8394	23,47226	
88	93897,42350,20714	2 72967,56170	2 90708,25537	9,97265,36756,0813	10,43611,10404	52:48
	6,00514,42098	147,42978	138,42834	2,77758,8880	23,46258	
87	93891,41835,78616	2 72820,13192	2 90569,82703	9,97262,58997,1933	10,43587,64146	52:12
	6,00800,43060	147,28946	138,28774	2,77908,9556	23,45292	
86	93885,41035,35556	2 72672,84246	2 90431,53929	9,97259,81088,2377	10,43564,18854	51:36
	6,01086,42191	147,14933	138,14733	2,78059,0426	23,44325	
85	93879,39948,93365	2 72525,69313	2 90293,39196	9,97257,03029,1951	10,43540,74529	51: 0
	6,01372,39491	147,00942	138,00714	2,78209,1487	23,43361	
84	93873,38576,53874	2 72378,68371	2 90155,38482	9,97254,24820,0464	10,43517,31168	50:24
	6,01658,34960	146,86970	137,86715	2,78359,2741	23,42397	
83	93867,36918,18914	2 72231,81401	2 90017,51767	9,97251,46460,7723	10,43493,88771	49:48
	6,01944,28595	146,73021	137,72737	2,78509,4187	23,41435	
82	93861,34973,90319	2 72085,08380	2 89879,79030	9,97248,67951,3536	10,43470,47336	49:12
	6,02230,20398	146,59092	137,58780	2,78659,5826	23,40473	
81	93855,32743,69921	2 71938,49288	2 89742,20250	9,97245,89291,7710	10,43447,06863	48:36
	6,02516,10365	146,45183	137,44844	2,78809,7657	23,39513	
80	93849,30227,59556	2 71792,04105	2 89604,75406	9,97243,10482,0053	10,43423,67350	48: 0
	6,02801,98498	146,31296	137,30927	2,78959,9681	23,38553	
79	93843,27425,61058	2 71645,72809	2 89467,44479	9,97240,31522,0372	10,43400,28797	47:24
	6,03087,84793	146,17428	137,17033	2,79110,1899	23,37595	
78	93837,24337,76265	2 71499,55381	2 89330,27446	9,97237,52411,8473	10,43376,91202	46:48
	6,03373,69252	146,03582	137,03158	2,79260,4309	23,36638	
77	93831,20964,07013	2 71353,51799	2 89193,24288	9,97234,73151,4164	10,43353,54564	46:12
	6,03659,51874	145,89755	136,89304	2,79410,6912	23,35682	
76	93825,17304,55139	2 71207,62044	2 89056,34984	9,97231,93740,7252	10,43330,18882	45:36
	6,03945,32655	145,75951	136,75471	2,79560,9710	23,34726	
75	93819,13359,22484	2 71061,86093	2 88919,59513	9,97229,14179,7542	10,43306,84156	45: 0
	6,04231,11597	145,62165	136,61657	2,79711,2700	23,33773	
74	93813,09128,10887	2 70916,23928	2 88782,97856	9,97226,34468,4842	10,43283,50383	44:24
	6,04516,88700	145,48401	136,47865	2,79861,5884	23,32819	
73	93807,04611,22187	2 70770,75527	2 88646,49991	9,97223,54606,8958	10,43260,17564	43:48
	6,04802,63959	145,34656	136,34092	2,80011,9261	23,31868	
72	93800,99808,58228	2 70625,40871	2 88510,15899	9,97220,74594,9697	10,43236,85696	43:12
	6,05088,37378	145,20933	136,20341	2,80162,2834	23,30917	
71	93794,94720,20850	2 70480,19938	2 88373,95558	9,97217,94432,6863	10,43213,54779	42:36
	6,05374,08952	145,07229	136,06609	2,80312,6599	23,29967	
70	93788,89346,11898	2 70335,12709	2 88237,88949	9,97215,14120,0264	10,43190,24812	42: 0
	6,05659,78683	144,93546	135,92897	2,80463,0559	23,29019	
69	93782,83686,33215	2 70190,19163	2 88101,96052	9,97212,33656,9705	10,43166,95793	41:24
	6,05945,46569	144,79882	135,79206	2,80613,4713	23,28070	
68	93776,77740,86646	2 70045,39281	2 87966,16846	9,97209,53043,4992	10,43143,67723	40:48
	6,06231,12609	144,66240	135,65536	2,80763,9061	23,27125	
67	93770,71509,74037	2 69900,73041	2 87830,51310	9,97206,72279,5931	10,43120,40598	40:12
	6,06516,76801	144,52618	135,51884	2,80914,3604	23,26178	

GRAD. 69.

20. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	34742,66814,91439	37050,65927	1 06643,10270	9,54086,31681,1091	9,56879,59402	19:48
	16,36554,79598	19,85048	6,89821	20,45264,2496	23,26178	
34	34759,03369,71037	37070,50975	1 06650,00091	9,54106,76945,3587	9,56902,85580	20:24
	16,36448,91391	19,85305	6,90235	20,44169,2758	23,25234	
35	34775,39818,62428	37090,36280	1 06656,90326	9,54127,21114,6345	9,56926,10814	21: 0
	16,36342,98199	19,85562	6,90649	20,43075,3324	23,24291	
36	34791,76161,60627	37110,21842	1 06663,80975	9,54147,64189,9669	9,56949,35105	21:36
	16,36237,00022	19,85819	6,91064	20,41982,4177	23,23348	
37	34808,12398,60649	37130,07661	1 06670,72039	9,54168,06172,3846	9,56972,58453	22:12
	16,36130,96862	19,86077	6,91479	20,40890,5303	23,22407	
38	34824,48529,57511	37149,93738	1 06677,63518	9,54188,47062,9149	9,56995,80860	22:48
	16,36024,88716	19,86334	6,91893	20,39799,6686	23,21467	
39	34840,84554,46227	37169,80072	1 06684,55411	9,54208,86862,5835	9,57019,02327	23:24
	16,35918,75588	19,86591	6,92308	20,38709,8312	23,20527	
40	34857,20473,21815	37189,66663	1 06691,47719	9,54229,25572,4147	9,57042,22854	24: 0
	16,35812,57477	19,86850	6,92723	20,37621,0165	23,19589	
41	34873,56285,79292	37209,53513	1 06698,40442	9,54249,63193,4312	9,57065,42443	24:36
	16,35706,34381	19,87108	6,93137	20,36533,2230	23,18652	
42	34889,91992,13673	37229,40621	1 06705,33579	9,54269,99726,6542	9,57088,61095	25:12
	16,35600,06305	19,87366	6,93553	20,35446,4492	23,17716	
43	34906,27592,19978	37249,27987	1 06712,27132	9,54290,35173,1034	9,57111,78811	25:48
	16,35493,73244	19,87625	6,93969	20,34360,6936	23,16780	
44	34922,63085,93222	37269,15612	1 06719,21101	9,54310,69533,7970	9,57134,95591	26:24
	16,35387,35203	19,87883	6,94383	20,33275,9548	23,15847	
45	34938,98473,28425	37289,03495	1 06726,15484	9,54331,02809,7518	9,57158,11438	27: 0
	16,35280,92180	19,88141	6,94799	20,32192,2312	23,14914	
46	34955,33754,20605	37308,91636	1 06733,10283	9,54351,35001,9830	9,57181,26352	27:36
	16,35174,44175	19,88401	6,95215	20,31109,5213	23,13981	
47	34971,68928,64780	37328,80037	1 06740,05498	9,54371,66111,5043	9,57204,40333	28:12
	16,35067,91189	19,88660	6,95631	20,30027,8237	23,13051	
48	34988,03996,55969	37348,68697	1 06747,01129	9,54391,96139,3280	9,57227,53384	28:48
	16,34961,33223	19,88919	6,96046	20,28947,1368	23,12120	
49	35004,38957,89192	37368,57616	1 06753,97175	9,54412,25086,4648	9,57250,65504	29:24
	16,34854,70275	19,89179	6,96462	20,27867,4593	23,11192	
50	35020,73812,59467	37388,46795	1 06760,93637	9,54432,52953,9241	9,57273,76696	30: 0
	16,34748,02350	19,89438	6,96879	20,26788,7895	23,10264	
51	35037,08560,61817	37408,36233	1 06767,90516	9,54452,79742,7136	9,57296,86960	30:36
	16,34641,29442	19,89698	6,97295	20,25711,1261	23,09337	
52	35053,43201,91259	37428,25931	1 06774,87811	9,54473,05453,8397	9,57319,96297	31:12
	16,34534,51557	19,89958	6,97711	20,24634,4675	23,08411	
53	35069,77736,42816	37448,15889	1 06781,85522	9,54493,30088,3072	9,57343,04708	31:48
	16,34427,68691	19,90218	6,98128	20,23558,8123	23,07487	
54	35086,12164,11507	37468,06107	1 06788,83650	9,54513,53647,1195	9,57366,12195	32:24
	16,34320,80848	19,90479	6,98544	20,22484,1590	23,06562	
55	35102,46484,92355	37487,96586	1 06795,82194	9,54533,76131,2785	9,57389,18757	33: 0
	16,34213,88025	19,90739	6,98961	20,21410,5063	23,05640	
56	35118,80698,80380	37507,87325	1 06802,81155	9,54553,97541,7848	9,57412,24397	33:36
	16,34106,90225	19,90999	6,99378	20,20337,8523	23,04718	
57	35135,14805,70605	37527,78324	1 06809,80533	9,54574,17879,6371	9,57435,29115	34:12
	16,33999,87447	19,91261	6,99795	20,19266,1961	23,03797	
58	35151,48805,58052	37547,69585	1 06816,80328	9,54594,37145,8332	9,57458,32912	34:48
	16,33892,79691	19,91521	7,00212	20,18195,5359	23,02878	
59	35167,82698,37743	37567,61106	1 06823,80540	9,54614,55341,3691	9,57481,35790	35:24
	16,33785,66959	19,91783	7,00630	20,17125,8703	23,01959	
60	35184,16484,04702	37587,52889	1 06830,81170	9,54634,72467,2394	9,57504,37749	36: 0
	16,33678,49249	19,92044	7,01046	20,16057,1978	23,01041	
61	35200,50162,53951	37607,44933	1 06837,82216	9,54654,88524,4372	9,57527,38790	36:36
	16,33571,26563	19,92305	7,01465	20,14989,5172	23,00125	
62	35216,83733,80514	37627,37238	1 06844,83681	9,54675,03513,9544	9,57550,38915	37:12
	16,33463,98901	19,92567	7,01882	20,13922,8267	22,99209	
63	35233,17197,79415	37647,29805	1 06851,85563	9,54695,17436,7811	9,57573,38124	37:48
	16,33356,66264	19,92830	7,02299	20,12857,1252	22,98294	
64	35249,50554,45679	37667,22635	1 06858,87862	9,54715,30293,9063	9,57596,36418	38:24
	16,33249,28649	19,93091	7,02718	20,11792,4110	22,97380	
65	35265,83803,74328	37687,15726	1 06865,90580	9,54735,42086,3173	9,57619,33798	39: 0
	16,33141,86062	19,93353	7,03135	20,10728,6827	22,96468	
66	35282,16945,60390	37707,09079	1 06872,93715	9,54755,52815,0000	9,57642,30266	39:36
	16,33034,38497	19,93616	7,03554	20,09665,9391	22,95557	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	93770,71509,74037	2 69900,73041	2 87830,51310	9,97206,72279,5931	10,43120,40598	40:12
	6,06516,76801	144,52618	135,51884	2,80914,3604	23,26178	
66	93764,64992,97236	2 69756,20423	2 87694,99426	9,97203,91365,2327	10,43097,14420	39:36
	6,06802,39148	144,39014	135,38254	2,81064,8342	23,25234	
65	93758,58190,58088	2 69611,81409	2 87559,61172	9,97201,10300,3985	10,43073,89186	39: 0
	6,07087,99644	144,25433	135,24642	2,81215,3275	23,24291	
64	93752,51102,58444	2 69467,55976	2 87424,36530	9,97198,29085,0710	10,43050,64895	38:24
	6,07373,58293	144,11869	135,11053	2,81365,8401	23,23348	
63	93746,43729,00151	2 69323,44107	2 87289,25477	9,97195,47719,2309	10,43027,41547	37:48
	6,07659,15090	143,98328	134,97481	2,81516,3724	23,22407	
62	93740,36069,85061	2 69179,45779	2 87154,27996	9,97192,66202,8585	10,43004,19140	37:12
	6,07944,70038	143,84804	134,83931	2,81666,9242	23,21467	
61	93734,28125,15023	2 69035,60975	2 87019,44065	9,97189,84535,9343	10,42980,97673	36:36
	6,08230,23131	143,71303	134,70400	2,81817,4954	23,20527	
60	93728,19894,91892	2 68891,89672	2 86884,73665	9,97187,02718,4389	10,42957,77146	36: 0
	6,08515,74374	143,57819	134,56889	2,81968,0862	23,19589	
59	93722,11379,17518	2 68748,31853	2 86750,16776	9,97184,20750,3527	10,42934,57557	35:24
	6,08801,23763	143,44357	134,43397	2,82118,6966	23,18652	
58	93716,02577,93755	2 68604,87496	2 86615,73379	9,97181,38631,6561	10,42911,38905	34:48
	6,09086,71296	143,30913	134,29927	2,82269,3266	23,17716	
57	93709,93491,22459	2 68461,56583	2 86481,43452	9,97178,56362,3295	10,42888,21189	34:12
	6,09372,16975	143,17490	134,16474	2,82419,9761	23,16780	
56	93703,84119,05484	2 68318,39093	2 86347,26978	9,97175,73942,3534	10,42865,04409	33:36
	6,09657,60797	143,04087	134,03043	2,82570,6452	23,15847	
55	93697,74461,44687	2 68175,35006	2 86213,23935	9,97172,91371,7082	10,42841,88562	33: 0
	6,09943,02762	142,90703	133,89630	2,82721,3340	23,14914	
54	93691,64518,41925	2 68032,44303	2 86079,34305	9,97170,08650,3742	10,42818,73648	32:24
	6,10228,42870	142,77338	133,76238	2,82872,0423	23,13981	
53	93685,54289,99055	2 67889,66965	2 85945,58067	9,97167,25778,3319	10,42795,59667	31:48
	6,10513,81117	142,63994	133,62865	2,83022,7703	23,13051	
52	93679,43776,17938	2 67747,02971	2 85811,95202	9,97164,42755,5616	10,42772,46616	31:12
	6,10799,17506	142,50669	133,49511	2,83173,5179	23,12120	
51	93673,32977,00432	2 67604,52302	2 85678,45691	9,97161,59582,0437	10,42749,34496	30:36
	6,11084,52034	142,37363	133,36177	2,83324,2852	23,11192	
50	93667,21892,48398	2 67462,14939	2 85545,09514	9,97158,76257,7585	10,42726,23304	30: 0
	6,11369,84701	142,24077	133,22863	2,83475,0722	23,10264	
49	93661,10522,63697	2 67319,90862	2 85411,86651	9,97155,92782,6863	10,42703,13040	29:24
	6,11655,15505	142,10810	133,09567	2,83625,8789	23,09337	
48	93654,98867,48192	2 67177,80052	2 85278,77084	9,97153,09156,8074	10,42680,03703	28:48
	6,11940,44445	141,97563	132,96292	2,83776,7051	23,08411	
47	93648,86927,03747	2 67035,82489	2 85145,80792	9,97150,25380,1023	10,42656,95292	28:12
	6,12225,71523	141,84336	132,83036	2,83927,5513	23,07487	
46	93642,74701,32224	2 66893,98153	2 85012,97756	9,97147,41452,5510	10,42633,87805	27:36
	6,12510,96734	141,71127	132,69799	2,84078,4170	23,06562	
45	93636,62190,35490	2 66752,27026	2 84880,27957	9,97144,57374,1340	10,42610,81243	27: 0
	6,12796,20081	141,57937	132,56580	2,84229,3025	23,05640	
44	93630,49394,15409	2 66610,69089	2 84747,71377	9,97141,73144,8315	10,42587,75603	26:24
	6,13081,41560	141,44768	132,43383	2,84380,2079	23,04718	
43	93624,36312,73849	2 66469,24321	2 84615,27994	9,97138,88764,6236	10,42564,70885	25:48
	6,13366,61171	141,31617	132,30203	2,84531,1328	23,03797	
42	93618,22946,12678	2 66327,92704	2 84482,97791	9,97136,04233,4908	10,42541,67088	25:12
	6,13651,78915	141,18486	132,17043	2,84682,0777	23,02878	
41	93612,09294,33763	2 66186,74218	2 84350,80748	9,97133,19551,4131	10,42518,64210	24:36
	6,13936,94790	141,05373	132,03903	2,84833,0423	23,01959	
40	93605,95357,38973	2 66045,68845	2 84218,76845	9,97130,34718,3708	10,42495,62251	24: 0
	6,14222,08793	140,92280	131,90780	2,84984,0267	23,01041	
39	93599,81135,30180	2 65904,76565	2 84086,86065	9,97127,49734,3441	10,42472,61210	23:24
	6,14507,20926	140,79206	131,77678	2,85135,0309	23,00125	
38	93593,66628,09254	2 65763,97359	2 83955,08387	9,97124,64599,3132	10,42449,61085	22:48
	6,14792,31188	140,66151	131,64594	2,85286,0550	22,99209	
37	93587,51835,78066	2 65623,31208	2 83823,43793	9,97121,79313,2582	10,42426,61876	22:12
	6,15077,39575	140,53115	131,51529	2,85437,0989	22,98294	
36	93581,36758,38491	2 65482,78093	2 83691,92264	9,97118,93876,1593	10,42403,63582	21:36
	6,15362,46090	140,40098	131,38484	2,85588,1626	22,97380	
35	93575,21395,92401	2 65342,37995	2 83560,53780	9,97116,08287,9967	10,42380,66202	21: 0
	6,15647,50731	140,27099	131,25456	2,85739,2463	22,96468	
34	93569,05748,41670	2 65202,10896	2 83429,28324	9,97113,22548,7504	10,42357,69734	20:24
	6,15932,53495	140,14120	131,12449	2,85890,3497	22,95557	

GRAD. 69.

20. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	35298,49979,98887	37727,02695	1 06879,97269	9,54775,62480,9391	9,57665,25823	40:12
	16,32926,85960	19,93878	7,03972	20,08604,1785	22,94645	
68	35314,82906,84847	37746,96573	1 06887,01241	9,54795,71085,1176	9,57688,20468	40:48
	16,32819,28448	19,94141	7,04390	20,07543,3996	22,93736	
69	35331,15726,13295	37766,90714	1 06894,05631	9,54815,78628,5172	9,57711,14204	41:24
	16,32711,65962	19,94404	7,04809	20,06483,6010	22,92828	
70	35347,48437,79257	37786,85118	1 06901,10440	9,54835,85112,1182	9,57734,07032	42: 0
	16,32603,98503	19,94667	7,05227	20,05424,7810	22,91919	
71	35363,81041,77760	37806,79785	1 06908,15667	9,54855,90536,8992	9,57756,98951	42:36
	16,32496,26069	19,94930	7,05647	20,04366,9387	22,91013	
72	35380,13538,03829	37826,74715	1 06915,21314	9,54875,94903,8379	9,57779,89964	43:12
	16,32388,48665	19,95194	7,06065	20,03310,0722	22,90108	
73	35396,45926,52494	37846,69909	1 06922,27379	9,54895,98213,9101	9,57802,80072	43:48
	16,32280,66286	19,95457	7,06484	20,02254,1803	22,89203	
74	35412,78207,18780	37866,65366	1 06929,33863	9,54916,00468,0904	9,57825,69275	44:24
	16,32172,78936	19,95721	7,06903	20,01199,2615	22,88299	
75	35429,10379,97716	37886,61087	1 06936,40766	9,54936,01667,3519	9,57848,57574	45: 0
	16,32064,86614	19,95985	7,07322	20,00145,3146	22,87396	
76	35445,42444,84330	37906,57072	1 06943,48088	9,54956,01812,6665	9,57871,44970	45:36
	16,31956,89320	19,96249	7,07742	19,99092,3380	22,86495	
77	35461,74401,73650	37926,53321	1 06950,55830	9,54976,00905,0045	9,57894,31465	46:12
	16,31848,87055	19,96513	7,08162	19,98040,3303	22,85594	
78	35478,06250,60705	37946,49834	1 06957,63992	9,54995,98945,3348	9,57917,17059	46:48
	16,31740,79819	19,96778	7,08581	19,96989,2901	22,84695	
79	35494,37991,40524	37966,46612	1 06964,72573	9,55015,95934,6249	9,57940,01754	47:24
	16,31632,67613	19,97043	7,09001	19,95939,2162	22,83795	
80	35510,69624,08137	37986,43655	1 06971,81574	9,55035,91873,8411	9,57962,85549	48: 0
	16,31524,50436	19,97307	7,09420	19,94890,1068	22,82898	
81	35527,01148,58573	38006,40962	1 06978,90994	9,55055,86763,9479	9,57985,68447	48:36
	16,31416,28290	19,97573	7,09841	19,93841,9610	22,82002	
82	35543,32564,86863	38026,38535	1 06986,00835	9,55075,80605,9089	9,58008,50449	49:12
	16,31308,01174	19,97837	7,10261	19,92794,7770	22,81105	
83	35559,63872,88037	38046,36372	1 06993,11096	9,55095,73400,6859	9,58031,31554	49:48
	16,31199,69088	19,98103	7,10681	19,91748,5537	22,80211	
84	35575,95072,57125	38066,34475	1 07000,21777	9,55115,65149,2396	9,58054,11765	50:24
	16,31091,32034	19,98368	7,11101	19,90703,2895	22,79317	
85	35592,26163,89159	38086,32843	1 07007,32878	9,55135,55852,5291	9,58076,91082	51: 0
	16,30982,90011	19,98634	7,11522	19,89658,9831	22,78424	
86	35608,57146,79170	38106,31477	1 07014,44400	9,55155,45511,5122	9,58099,69506	51:36
	16,30874,43020	19,98900	7,11943	19,88615,6332	22,77532	
87	35624,88021,22190	38126,30377	1 07021,56343	9,55175,34127,1454	9,58122,47038	52:12
	16,30765,91061	19,99166	7,12364	19,87573,2383	22,76642	
88	35641,18787,13251	38146,29543	1 07028,68707	9,55195,21700,3837	9,58145,23680	52:48
	16,30657,34134	19,99433	7,12784	19,86531,7971	22,75751	
89	35657,49444,47385	38166,28976	1 07035,81491	9,55215,08232,1808	9,58167,99431	53:24
	16,30548,72240	19,99698	7,13206	19,85491,3082	22,74863	
90	35673,79993,19625	38186,28674	1 07042,94697	9,55234,93723,4890	9,58190,74294	54: 0
	16,30440,05380	19,99965	7,13626	19,84451,7703	22,73974	
91	35690,10433,25005	38206,28639	1 07050,08323	9,55254,78175,2593	9,58213,48268	54:36
	16,30331,33552	20,00232	7,14048	19,83413,1819	22,73088	
92	35706,40764,58557	38226,28871	1 07057,22371	9,55274,61588,4412	9,58236,21356	55:12
	16,30222,56758	20,00499	7,14469	19,82375,5417	22,72201	
93	35722,70987,15315	38246,29370	1 07064,36840	9,55294,43963,9829	9,58258,93557	55:48
	16,30113,74998	20,00766	7,14891	19,81338,8485	22,71317	
94	35739,01100,90313	38266,30136	1 07071,51731	9,55314,25302,8314	9,58281,64874	56:24
	16,30004,88274	20,01033	7,15313	19,80303,1005	22,70432	
95	35755,31105,78587	38286,31169	1 07078,67044	9,55334,05605,9319	9,58304,35306	57: 0
	16,29895,96582	20,01301	7,15734	19,79268,2969	22,69550	
96	35771,61001,75169	38306,32470	1 07085,82778	9,55353,84874,2288	9,58327,04856	57:36
	16,29786,99927	20,01568	7,16157	19,78234,4359	22,68667	
97	35787,90788,75096	38326,34038	1 07092,98935	9,55373,63108,6647	9,58349,73523	58:12
	16,29677,98307	20,01836	7,16578	19,77201,5165	22,67786	
98	35804,20466,73403	38346,35874	1 07100,15513	9,55393,40310,1812	9,58372,41309	58:48
	16,29568,91723	20,02104	7,17000	19,76169,5371	22,66906	
99	35820,50035,65126	38366,37978	1 07107,32513	9,55413,16479,7183	9,58395,08215	59:24
	16,29459,80174	20,02372	7,17423	19,75138,4963	22,66026	
100	35836,79495,45300	38386,40350	1 07114,49936	9,55432,91618,2146	9,58417,74241	60: 0
	16,29350,63663	20,02641	7,17846	19,74108,3932	22,65149	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	93562,89815,88175	2 65061,96776	2 83298,15875	9,97110,36658,4007	10,42334,74177	19:48
	6,16217,54384	140,01160	130,99459	2,86041,4732	22,94645	
32	93556,73598,33791	2 64921,95616	2 83167,16416	9,97107,50616,9275	10,42311,79532	19:12
	6,16502,53395	139,88218	130,86489	2,86192,6165	22,93736	
31	93550,57095,80396	2 64782,07398	2 83036,29927	9,97104,64424,3110	10,42288,85796	18:36
	6,16787,50529	139,75295	130,73538	2,86343,7797	22,92828	
30	93544,40308,29867	2 64642,32103	2 82905,56389	9,97101,78080,5313	10,42265,92968	18: 0
	6,17072,45783	139,62391	130,60605	2,86494,9628	22,91919	
29	93538,23235,84084	2 64502,69712	2 82774,95784	9,97098,91585,5685	10,42243,01049	17:24
	6,17357,39158	139,49506	130,47690	2,86646,1660	22,91013	
28	93532,05878,44926	2 64363,20206	2 82644,48094	9,97096,04939,4025	10,42220,10036	16:48
	6,17642,30653	139,36639	130,34796	2,86797,3891	22,90108	
27	93525,88236,14273	2 64223,83567	2 82514,13298	9,97093,18142,0134	10,42197,19928	16:12
	6,17927,20265	139,23791	130,21918	2,86948,6321	22,89203	
26	93519,70308,94008	2 64084,59776	2 82383,91380	9,97090,31193,3813	10,42174,30725	15:36
	6,18212,07996	139,10962	130,09060	2,87099,8951	22,88299	
25	93513,52096,86012	2 63945,48814	2 82253,82320	9,97087,44093,4862	10,42151,42426	15: 0
	6,18496,93844	138,98151	129,96220	2,87251,1782	22,87396	
24	93507,33599,92168	2 63806,50663	2 82123,86100	9,97084,56842,3080	10,42128,55030	14:24
	6,18781,77807	138,85358	129,83400	2,87402,4812	22,86495	
23	93501,14818,14361	2 63667,65305	2 81994,02700	9,97081,69439,8268	10,42105,68535	13:48
	6,19066,59885	138,72584	129,70596	2,87553,8043	22,85594	
22	93494,95751,54476	2 63528,92721	2 81864,32104	9,97078,81886,0225	10,42082,82941	13:12
	6,19351,40078	138,59830	129,57813	2,87705,1474	22,84695	
21	93488,76400,14398	2 63390,32891	2 81734,74291	9,97075,94180,8751	10,42059,98246	12:36
	6,19636,18384	138,47092	129,45046	2,87856,5106	22,83795	
20	93482,56763,96014	2 63251,85799	2 81605,29245	9,97073,06324,3645	10,42037,14451	12: 0
	6,19920,94802	138,34374	129,32299	2,88007,8938	22,82898	
19	93476,36843,01212	2 63113,51425	2 81475,96946	9,97070,18316,4707	10,42014,31553	11:24
	6,20205,69332	138,21673	129,19570	2,88159,2971	22,82002	
18	93470,16637,31880	2 62975,29752	2 81346,77376	9,97067,30157,1736	10,41991,49551	10:48
	6,20490,41974	138,08992	129,06859	2,88310,7206	22,81105	
17	93463,96146,89906	2 62837,20760	2 81217,70517	9,97064,41846,4530	10,41968,68446	10:12
	6,20775,12724	137,96328	128,94167	2,88462,1640	22,80211	
16	93457,75371,77182	2 62699,24432	2 81088,76350	9,97061,53384,2890	10,41945,88235	9:36
	6,21059,81583	137,83682	128,81492	2,88613,6277	22,79317	
15	93451,54311,95599	2 62561,40750	2 80959,94858	9,97058,64770,6613	10,41923,08918	9: 0
	6,21344,48552	137,71056	128,68836	2,88765,1115	22,78424	
14	93445,32967,47047	2 62423,69694	2 80831,26022	9,97055,76005,5498	10,41900,30494	8:24
	6,21629,13627	137,58446	128,56198	2,88916,6154	22,77532	
13	93439,11338,33420	2 62286,11248	2 80702,69824	9,97052,87088,9344	10,41877,52962	7:48
	6,21913,76808	137,45856	128,43579	2,89068,1394	22,76642	
12	93432,89424,56612	2 62148,65392	2 80574,26245	9,97049,98020,7950	10,41854,76320	7:12
	6,22198,38095	137,33283	128,30976	2,89219,6837	22,75751	
11	93426,67226,18517	2 62011,32109	2 80445,95269	9,97047,08801,1113	10,41832,00569	6:36
	6,22482,97487	137,20729	128,18393	2,89371,2481	22,74863	
10	93420,44743,21030	2 61874,11380	2 80317,76876	9,97044,19429,8632	10,41809,25706	6: 0
	6,22767,54983	137,08191	128,05828	2,89522,8328	22,73974	
9	93414,21975,66047	2 61737,03189	2 80189,71048	9,97041,29907,0304	10,41786,51732	5:24
	6,23052,10581	136,95674	127,93280	2,89674,4376	22,73088	
8	93407,98923,55466	2 61600,07515	2 80061,77768	9,97038,40232,5928	10,41763,78644	4:48
	6,23336,64282	136,83173	127,80750	2,89826,0626	22,72201	
7	93401,75586,91184	2 61463,24342	2 79933,97018	9,97035,50406,5302	10,41741,06443	4:12
	6,23621,16084	136,70690	127,68238	2,89977,7080	22,71317	
6	93395,51965,75100	2 61326,53652	2 79806,28780	9,97032,60428,8222	10,41718,35126	3:36
	6,23905,65986	136,58225	127,55745	2,90129,3735	22,70432	
5	93389,28060,09114	2 61189,95427	2 79678,73035	9,97029,70299,4487	10,41695,64694	3: 0
	6,24190,13987	136,45779	127,43268	2,90281,0593	22,69550	
4	93383,03869,95127	2 61053,49648	2 79551,29767	9,97026,80018,3894	10,41672,95144	2:24
	6,24474,60088	136,33349	127,30811	2,90432,7655	22,68667	
3	93376,79395,35039	2 60917,16299	2 79423,98956	9,97023,89585,6239	10,41650,26477	1:48
	6,24759,04285	136,20938	127,18370	2,90584,4918	22,67786	
2	93370,54636,30754	2 60780,95361	2 79296,80586	9,97020,99001,1321	10,41627,58691	1:12
	6,25043,46581	136,08545	127,05947	2,90736,2385	22,66906	
1	93364,29592,84173	2 60644,86816	2 79169,74639	9,97018,08264,8936	10,41604,91785	0:36
	6,25327,86971	135,96169	126,93543	2,90888,0056	22,66026	
0	93358,04264,97202	2 60508,90647	2 79042,81096	9,97015,17376,8880	10,41582,25759	0: 0
	6,25612,25458	135,83811	126,81155	2,91039,7929	22,65149	

GRAD. 69.

21. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
0	35836,79495,45300	38386,40350	1 07114,49936	9,55432,91618,2146	9,58417,74241	0: 0
	16,29350,63663	20,02641	7,17846	19,74108,3932	22,65149	
1	35853,08846,08963	38406,42991	1 07121,67782	9,55452,65726,6078	9,58440,39390	0:36
	16,29241,42187	20,02909	7,18268	19,73079,2258	22,64270	
2	35869,38087,51150	38426,45900	1 07128,86050	9,55472,38805,8336	9,58463,03660	1:12
	16,29132,15748	20,03178	7,18690	19,72050,9934	22,63395	
3	35885,67219,66898	38446,49078	1 07136,04740	9,55492,10856,8270	9,58485,67055	1:48
	16,29022,84348	20,03446	7,19114	19,71023,6942	22,62519	
4	35901,96242,51246	38466,52524	1 07143,23854	9,55511,81880,5212	9,58508,29574	2:24
	16,28913,47985	20,03716	7,19536	19,69997,3272	22,61644	
5	35918,25155,99231	38486,56240	1 07150,43390	9,55531,51877,8484	9,58530,91218	3: 0
	16,28804,06660	20,03984	7,19960	19,68971,8907	22,60771	
6	35934,53960,05891	38506,60224	1 07157,63350	9,55551,20849,7391	9,58553,51989	3:36
	16,28694,60373	20,04254	7,20382	19,67947,3838	22,59898	
7	35950,82654,66264	38526,64478	1 07164,83732	9,55570,88797,1229	9,58576,11887	4:12
	16,28585,09125	20,04524	7,20806	19,66923,8049	22,59027	
8	35967,11239,75389	38546,69002	1 07172,04538	9,55590,55720,9278	9,58598,70914	4:48
	16,28475,52916	20,04794	7,21230	19,65901,1527	22,58156	
9	35983,39715,28305	38566,73796	1 07179,25768	9,55610,21622,0805	9,58621,29070	5:24
	16,28365,91746	20,05063	7,21653	19,64879,4259	22,57286	
10	35999,68081,20051	38586,78859	1 07186,47421	9,55629,86501,5064	9,58643,86356	6: 0
	16,28256,25617	20,05333	7,22077	19,63858,6232	22,56418	
11	36015,96337,45668	38606,84192	1 07193,69498	9,55649,50360,1296	9,58666,42774	6:36
	16,28146,54527	20,05604	7,22501	19,62838,7434	22,55549	
12	36032,24484,00195	38626,89796	1 07200,91999	9,55669,13198,8730	9,58688,98323	7:12
	16,28036,78477	20,05874	7,22924	19,61819,7850	22,54683	
13	36048,52520,78672	38646,95670	1 07208,14923	9,55688,75018,6580	9,58711,53006	7:48
	16,27926,97469	20,06145	7,23349	19,60801,7468	22,53817	
14	36064,80447,76141	38667,01815	1 07215,38272	9,55708,35820,4048	9,58734,06823	8:24
	16,27817,11501	20,06415	7,23774	19,59784,6273	22,52951	
15	36081,08264,87642	38687,08230	1 07222,62046	9,55727,95605,0321	9,58756,59774	9: 0
	16,27707,20575	20,06687	7,24197	19,58768,4256	22,52088	
16	36097,35972,08217	38707,14917	1 07229,86243	9,55747,54373,4577	9,58779,11862	9:36
	16,27597,24690	20,06958	7,24622	19,57753,1400	22,51224	
17	36113,63569,32907	38727,21875	1 07237,10865	9,55767,12126,5977	9,58801,63086	10:12
	16,27487,23847	20,07229	7,25047	19,56738,7693	22,50362	
18	36129,91056,56754	38747,29104	1 07244,35912	9,55786,68865,3670	9,58824,13448	10:48
	16,27377,18048	20,07500	7,25471	19,55725,3123	22,49501	
19	36146,18433,74802	38767,36604	1 07251,61383	9,55806,24590,6793	9,58846,62949	11:24
	16,27267,07290	20,07772	7,25897	19,54712,7678	22,48640	
20	36162,45700,82092	38787,44376	1 07258,87280	9,55825,79303,4471	9,58869,11589	12: 0
	16,27156,91576	20,08044	7,26321	19,53701,1341	22,47781	
21	36178,72857,73668	38807,52420	1 07266,13601	9,55845,33004,5812	9,58891,59370	12:36
	16,27046,70905	20,08316	7,26747	19,52690,4104	22,46923	
22	36194,99904,44573	38827,60736	1 07273,40348	9,55864,85694,9916	9,58914,06293	13:12
	16,26936,45278	20,08589	7,27172	19,51680,5950	22,46064	
23	36211,26840,89851	38847,69325	1 07280,67520	9,55884,37375,5866	9,58936,52357	13:48
	16,26826,14695	20,08860	7,27597	19,50671,6869	22,45209	
24	36227,53667,04546	38867,78185	1 07287,95117	9,55903,88047,2735	9,58958,97566	14:24
	16,26715,79156	20,09134	7,28023	19,49663,6847	22,44352	
25	36243,80382,83702	38887,87319	1 07295,23140	9,55923,37710,9582	9,58981,41918	15: 0
	16,26605,38662	20,09406	7,28448	19,48656,5872	22,43498	
26	36260,06988,22364	38907,96725	1 07302,51588	9,55942,86367,5454	9,59003,85416	15:36
	16,26494,93213	20,09678	7,28875	19,47650,3929	22,42644	
27	36276,33483,15577	38928,06403	1 07309,80463	9,55962,34017,9383	9,59026,28060	16:12
	16,26384,42809	20,09952	7,29300	19,46645,1007	22,41791	
28	36292,59867,58386	38948,16355	1 07317,09763	9,55981,80663,0390	9,59048,69851	16:48
	16,26273,87452	20,10226	7,29727	19,45640,7095	22,40938	
29	36308,86141,45838	38968,26581	1 07324,39490	9,56001,26303,7485	9,59071,10789	17:24
	16,26163,27140	20,10498	7,30152	19,44637,2176	22,40088	
30	36325,12304,72978	38988,37079	1 07331,69642	9,56020,70940,9661	9,59093,50877	18: 0
	16,26052,61875	20,10773	7,30579	19,43634,6241	22,39238	
31	36341,38357,34853	39008,47852	1 07339,00221	9,56040,14575,5902	9,59115,90115	18:36
	16,25941,91657	20,11046	7,31006	19,42632,9275	22,38388	
32	36357,64299,26510	39028,58898	1 07346,31227	9,56059,57208,5177	9,59138,28503	19:12
	16,25831,16485	20,11320	7,31432	19,41632,1267	22,37540	
33	36373,90130,42995	39048,70218	1 07353,62659	9,56078,98840,6444	9,59160,66043	19:48
	16,25720,36361	20,11595	7,31859	19,40632,2204	22,36692	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
100	93358,04264,97202	2 60508,90647	2 79042,81096	9,97015,17376,8880	10,41582,25759	60: 0
	6,25612,25458	135,83811	126,81155	2,91039,7929	22,65149	
99	93351,78652,71744	2 60373,06836	2 78915,99941	9,97012,26337,0951	10,41559,60610	59:24
	6,25896,62037	135,71471	126,68786	2,91191,6005	22,64270	
98	93345,52756,09707	2 60237,35365	2 78789,31155	9,97009,35145,4946	10,41536,96340	58:48
	6,26180,96711	135,59148	126,56433	2,91343,4287	22,63395	
97	93339,26575,12996	2 60101,76217	2 78662,74722	9,97006,43802,0659	10,41514,32945	58:12
	6,26465,29478	135,46842	126,44100	2,91495,2770	22,62519	
96	93333,00109,83518	2 59966,29375	2 78536,30622	9,97003,52306,7889	10,41491,70426	57:36
	6,26749,60335	135,34556	126,31782	2,91647,1459	22,61644	
95	93326,73360,23183	2 59830,94819	2 78409,98840	9,97000,60659,6430	10,41469,08782	57: 0
	6,27033,89284	135,22285	126,19484	2,91799,0351	22,60771	
94	93320,46326,33899	2 59695,72534	2 78283,79356	9,96997,68860,6079	10,41446,48011	56:24
	6,27318,16323	135,10033	126,07201	2,91950,9447	22,59898	
93	93314,19008,17576	2 59560,62501	2 78157,72155	9,96994,76909,6632	10,41423,88113	55:48
	6,27602,41451	134,97797	125,94937	2,92102,8747	22,59027	
92	93307,91405,76125	2 59425,64704	2 78031,77218	9,96991,84806,7885	10,41401,29086	55:12
	6,27886,64666	134,85580	125,82690	2,92254,8253	22,58156	
91	93301,63519,11459	2 59290,79124	2 77905,94528	9,96988,92551,9632	10,41378,70930	54:36
	6,28170,85970	134,73380	125,70461	2,92406,7961	22,57286	
90	93295,35348,25489	2 59156,05744	2 77780,24067	9,96986,00145,1671	10,41356,13644	54: 0
	6,28455,05359	134,61197	125,58248	2,92558,7876	22,56418	
89	93289,06893,20130	2 59021,44547	2 77654,65819	9,96983,07586,3795	10,41333,57226	53:24
	6,28739,22835	134,49032	125,46054	2,92710,7995	22,55549	
88	93282,78153,97295	2 58886,95515	2 77529,19765	9,96980,14875,5800	10,41311,01677	52:48
	6,29023,38396	134,36883	125,33876	2,92862,8318	22,54683	
87	93276,49130,58899	2 58752,58632	2 77403,85889	9,96977,22012,7482	10,41288,46994	52:12
	6,29307,52039	134,24752	125,21715	2,93014,8847	22,53817	
86	93270,19823,06860	2 58618,33880	2 77278,64174	9,96974,28997,8635	10,41265,93177	51:36
	6,29591,63766	134,12639	125,09573	2,93166,9581	22,52951	
85	93263,90231,43094	2 58484,21241	2 77153,54601	9,96971,35830,9054	10,41243,40226	51: 0
	6,29875,73575	134,00542	124,97447	2,93319,0520	22,52088	
84	93257,60355,69519	2 58350,20699	2 77028,57154	9,96968,42511,8534	10,41220,88138	50:24
	6,30159,81466	133,88463	124,85337	2,93471,1665	22,51224	
83	93251,30195,88053	2 58216,32236	2 76903,71817	9,96965,49040,6869	10,41198,36914	49:48
	6,30443,87437	133,76400	124,73246	2,93623,3016	22,50362	
82	93244,99752,00616	2 58082,55836	2 76778,98571	9,96962,55417,3853	10,41175,86552	49:12
	6,30727,91487	133,64356	124,61172	2,93775,4571	22,49501	
81	93238,69024,09129	2 57948,91480	2 76654,37399	9,96959,61641,9282	10,41153,37051	48:36
	6,31011,93617	133,52327	124,49114	2,93927,6334	22,48640	
80	93232,38012,15512	2 57815,39153	2 76529,88285	9,96956,67714,2948	10,41130,88411	48: 0
	6,31295,93823	133,40317	124,37074	2,94079,8301	22,47781	
79	93226,06716,21689	2 57681,98836	2 76405,51211	9,96953,73634,4647	10,41108,40630	47:24
	6,31579,92108	133,28322	124,25050	2,94232,0476	22,46923	
78	93219,75136,29581	2 57548,70514	2 76281,26161	9,96950,79402,4171	10,41085,93707	46:48
	6,31863,88467	133,16346	124,13044	2,94384,2855	22,46064	
77	93213,43272,41114	2 57415,54168	2 76157,13117	9,96947,85018,1316	10,41063,47643	46:12
	6,32147,82903	133,04386	124,01054	2,94536,5443	22,45209	
76	93207,11124,58211	2 57282,49782	2 76033,12063	9,96944,90481,5873	10,41041,02434	45:36
	6,32431,75412	132,92442	123,89081	2,94688,8236	22,44352	
75	93200,78692,82799	2 57149,57340	2 75909,22982	9,96941,95792,7637	10,41018,58082	45: 0
	6,32715,65996	132,80516	123,77126	2,94841,1236	22,43498	
74	93194,45977,16803	2 57016,76824	2 75785,45856	9,96939,00951,6401	10,40996,14584	44:24
	6,32999,54652	132,68607	123,65186	2,94993,4442	22,42644	
73	93188,12977,62151	2 56884,08217	2 75661,80670	9,96936,05958,1959	10,40973,71940	43:48
	6,33283,41379	132,56715	123,53265	2,95145,7857	22,41791	
72	93181,79694,20772	2 56751,51502	2 75538,27405	9,96933,10812,4102	10,40951,30149	43:12
	6,33567,26177	132,44838	123,41359	2,95298,1477	22,40938	
71	93175,46126,94595	2 56619,06664	2 75414,86046	9,96930,15514,2625	10,40928,89211	42:36
	6,33851,09046	132,32980	123,29470	2,95450,5305	22,40088	
70	93169,12275,85549	2 56486,73684	2 75291,56576	9,96927,20063,7320	10,40906,49123	42: 0
	6,34134,89984	132,21137	123,17599	2,95602,9340	22,39238	
69	93162,78140,95565	2 56354,52547	2 75168,38977	9,96924,24460,7980	10,40884,09885	41:24
	6,34418,68990	132,09312	123,05743	2,95755,3583	22,38388	
68	93156,43722,26575	2 56222,43235	2 75045,33234	9,96921,28705,4397	10,40861,71497	40:48
	6,34702,46063	131,97502	122,93905	2,95907,8034	22,37540	
67	93150,09019,80512	2 56090,45733	2 74922,39329	9,96918,32797,6363	10,40839,33957	40:12
	6,34986,21203	131,85711	122,82082	2,96060,2692	22,36692	

GRAD. 68.

21. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	36373,90130,42995	39048,70218	1 07353,62659	9,56078,98840,6444	9,59160,66043	19:48
	16,25720,36361	20,11595	7,31859	19,40632,2204	22,36692	
34	36390,15850,79356	39068,81813	1 07360,94518	9,56098,39472,8648	9,59183,02735	20:24
	16,25609,51285	20,11868	7,32286	19,39633,2072	22,35846	
35	36406,41460,30641	39088,93681	1 07368,26804	9,56117,79106,0720	9,59205,38581	21: 0
	16,25498,61257	20,12144	7,32712	19,38635,0861	22,35001	
36	36422,66958,91898	39109,05825	1 07375,59516	9,56137,17741,1581	9,59227,73582	21:36
	16,25387,66278	20,12418	7,33140	19,37637,8556	22,34155	
37	36438,92346,58176	39129,18243	1 07382,92656	9,56156,55379,0137	9,59250,07737	22:12
	16,25276,66346	20,12692	7,33568	19,36641,5145	22,33312	
38	36455,17623,24522	39149,30935	1 07390,26224	9,56175,92020,5282	9,59272,41049	22:48
	16,25165,61465	20,12968	7,33994	19,35646,0617	22,32469	
39	36471,42788,85987	39169,43903	1 07397,60218	9,56195,27666,5899	9,59294,73518	23:24
	16,25054,51633	20,13244	7,34422	19,34651,4958	22,31627	
40	36487,67843,37620	39189,57147	1 07404,94640	9,56214,62318,0857	9,59317,05145	24: 0
	16,24943,36850	20,13518	7,34850	19,33657,8157	22,30786	
41	36503,92786,74470	39209,70665	1 07412,29490	9,56233,95975,9014	9,59339,35931	24:36
	16,24832,17118	20,13794	7,35278	19,32665,0199	22,29946	
42	36520,17618,91588	39229,84459	1 07419,64768	9,56253,28640,9213	9,59361,65877	25:12
	16,24720,92436	20,14070	7,35705	19,31673,1074	22,29106	
43	36536,42339,84024	39249,98529	1 07427,00473	9,56272,60314,0287	9,59383,94983	25:48
	16,24609,62805	20,14346	7,36134	19,30682,0769	22,28269	
44	36552,66949,46829	39270,12875	1 07434,36607	9,56291,90996,1056	9,59406,23252	26:24
	16,24498,28225	20,14622	7,36561	19,29691,9272	22,27430	
45	36568,91447,75054	39290,27497	1 07441,73168	9,56311,20688,0328	9,59428,50682	27: 0
	16,24386,88697	20,14899	7,36991	19,28702,6568	22,26594	
46	36585,15834,63751	39310,42396	1 07449,10159	9,56330,49390,6896	9,59450,77276	27:36
	16,24275,44221	20,15175	7,37418	19,27714,2649	22,25759	
47	36601,40110,07972	39330,57571	1 07456,47577	9,56349,77104,9545	9,59473,03035	28:12
	16,24163,94796	20,15451	7,37847	19,26726,7500	22,24924	
48	36617,64274,02768	39350,73022	1 07463,85424	9,56369,03831,7045	9,59495,27959	28:48
	16,24052,40424	20,15729	7,38276	19,25740,1108	22,24090	
49	36633,88326,43192	39370,88751	1 07471,23700	9,56388,29571,8153	9,59517,52049	29:24
	16,23940,81105	20,16005	7,38705	19,24754,3464	22,23256	
50	36650,12267,24297	39391,04756	1 07478,62405	9,56407,54326,1617	9,59539,75305	30: 0
	16,23829,16840	20,16283	7,39134	19,23769,4552	22,22425	
51	36666,36096,41137	39411,21039	1 07486,01539	9,56426,78095,6169	9,59561,97730	30:36
	16,23717,47627	20,16560	7,39563	19,22785,4362	22,21594	
52	36682,59813,88764	39431,37599	1 07493,41102	9,56446,00881,0531	9,59584,19324	31:12
	16,23605,73469	20,16838	7,39992	19,21802,2883	22,20763	
53	36698,83419,62233	39451,54437	1 07500,81094	9,56465,22683,3414	9,59606,40087	31:48
	16,23493,94365	20,17115	7,40422	19,20820,0099	22,19934	
54	36715,06913,56598	39471,71552	1 07508,21516	9,56484,43503,3513	9,59628,60021	32:24
	16,23382,10315	20,17394	7,40851	19,19838,6000	22,19106	
55	36731,30295,66913	39491,88946	1 07515,62367	9,56503,63341,9513	9,59650,79127	33: 0
	16,23270,21320	20,17671	7,41281	19,18858,0576	22,18278	
56	36747,53565,88233	39512,06617	1 07523,03648	9,56522,82200,0089	9,59672,97405	33:36
	16,23158,27381	20,17950	7,41710	19,17878,3812	22,17451	
57	36763,76724,15614	39532,24567	1 07530,45358	9,56542,00078,3901	9,59695,14856	34:12
	16,23046,28497	20,18228	7,42141	19,16899,5697	22,16625	
58	36779,99770,44111	39552,42795	1 07537,87499	9,56561,16977,9598	9,59717,31481	34:48
	16,22934,24670	20,18507	7,42570	19,15921,6218	22,15800	
59	36796,22704,68781	39572,61302	1 07545,30069	9,56580,32899,5816	9,59739,47281	35:24
	16,22822,15897	20,18786	7,43001	19,14944,5364	22,14977	
60	36812,45526,84678	39592,80088	1 07552,73070	9,56599,47844,1180	9,59761,62258	36: 0
	16,22710,02182	20,19065	7,43431	19,13968,3124	22,14153	
61	36828,68236,86860	39612,99153	1 07560,16501	9,56618,61812,4304	9,59783,76411	36:36
	16,22597,83524	20,19344	7,43862	19,12992,9483	22,13330	
62	36844,90834,70384	39633,18497	1 07567,60363	9,56637,74805,3787	9,59805,89741	37:12
	16,22485,59924	20,19623	7,44292	19,12018,4432	22,12510	
63	36861,13320,30308	39653,38120	1 07575,04655	9,56656,86823,8219	9,59828,02251	37:48
	16,22373,31380	20,19903	7,44723	19,11044,7958	22,11689	
64	36877,35693,61688	39673,58023	1 07582,49378	9,56675,97868,6177	9,59850,13940	38:24
	16,22260,97894	20,20183	7,45154	19,10072,0048	22,10869	
65	36893,57954,59582	39693,78206	1 07589,94532	9,56695,07940,6225	9,59872,24809	39: 0
	16,22148,59468	20,20463	7,45585	19,09100,0692	22,10050	
66	36909,80103,19050	39713,98669	1 07597,40117	9,56714,17040,6917	9,59894,34859	39:36
	16,22036,16099	20,20743	7,46016	19,08128,9877	22,09232	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	93150,09019,80512	2 56090,45733	2 74922,39329	9,96918,32797,6363	10,40839,33957	40:12
	6,34986,21203	131,85711	122,82082	2,96060,2692	22,36692	
66	93143,74033,59309	2 55958,60022	2 74799,57247	9,96915,36737,3671	10,40816,97265	39:36
	6,35269,94409	131,73934	122,70277	2,96212,7558	22,35846	
65	93137,38763,64900	2 55826,86088	2 74676,86970	9,96912,40524,6113	10,40794,61419	39: 0
	6,35553,65680	131,62176	122,58489	2,96365,2632	22,35001	
64	93131,03209,99220	2 55695,23912	2 74554,28481	9,96909,44159,3481	10,40772,26418	38:24
	6,35837,35014	131,50433	122,46716	2,96517,7914	22,34155	
63	93124,67372,64206	2 55563,73479	2 74431,81765	9,96906,47641,5567	10,40749,92263	37:48
	6,36121,02412	131,38707	122,34960	2,96670,3405	22,33312	
62	93118,31251,61794	2 55432,34772	2 74309,46805	9,96903,50971,2162	10,40727,58951	37:12
	6,36404,67872	131,26997	122,23221	2,96822,9104	22,32469	
61	93111,94846,93922	2 55301,07775	2 74187,23584	9,96900,54148,3058	10,40705,26482	36:36
	6,36688,31394	131,15304	122,11498	2,96975,5011	22,31627	
60	93105,58158,62528	2 55169,92471	2 74065,12086	9,96897,57172,8047	10,40682,94855	36: 0
	6,36971,92975	131,03628	121,99791	2,97128,1128	22,30786	
59	93099,21186,69553	2 55038,88843	2 73943,12295	9,96894,60044,6919	10,40660,64069	35:24
	6,37255,52617	130,91967	121,88101	2,97280,7452	22,29946	
58	93092,83931,16936	2 54907,96876	2 73821,24194	9,96891,62763,9467	10,40638,34123	34:48
	6,37539,10318	130,80323	121,76427	2,97433,3987	22,29106	
57	93086,46392,06618	2 54777,16553	2 73699,47767	9,96888,65330,5480	10,40616,05017	34:12
	6,37822,66076	130,68695	121,64770	2,97586,0730	22,28269	
56	93080,08569,40542	2 54646,47858	2 73577,82997	9,96885,67744,4750	10,40593,76748	33:36
	6,38106,19891	130,57084	121,53128	2,97738,7682	22,27430	
55	93073,70463,20651	2 54515,90774	2 73456,29869	9,96882,70005,7068	10,40571,49318	33: 0
	6,38389,71763	130,45489	121,41504	2,97891,4844	22,26594	
54	93067,32073,48888	2 54385,45285	2 73334,88365	9,96879,72114,2224	10,40549,22724	32:24
	6,38673,21690	130,33910	121,29894	2,98044,2216	22,25759	
53	93060,93400,27198	2 54255,11375	2 73213,58471	9,96876,74070,0008	10,40526,96965	31:48
	6,38956,69672	130,22347	121,18302	2,98196,9796	22,24924	
52	93054,54443,57526	2 54124,89028	2 73092,40169	9,96873,75873,0212	10,40504,72041	31:12
	6,39240,15707	130,10801	121,06726	2,98349,7587	22,24090	
51	93048,15203,41819	2 53994,78227	2 72971,33443	9,96870,77523,2625	10,40482,47951	30:36
	6,39523,59794	129,99270	120,95165	2,98502,5588	22,23256	
50	93041,75679,82025	2 53864,78957	2 72850,38278	9,96867,79020,7037	10,40460,24695	30: 0
	6,39807,01935	129,87756	120,83621	2,98655,3798	22,22425	
49	93035,35872,80090	2 53734,91201	2 72729,54657	9,96864,80365,3239	10,40438,02270	29:24
	6,40090,42125	129,76258	120,72093	2,98808,2220	22,21594	
48	93028,95782,37965	2 53605,14943	2 72608,82564	9,96861,81557,1019	10,40415,80676	28:48
	6,40373,80367	129,64776	120,60581	2,98961,0851	22,20763	
47	93022,55408,57598	2 53475,50167	2 72488,21983	9,96858,82596,0168	10,40393,59913	28:12
	6,40657,16657	129,53310	120,49085	2,99113,9692	22,19934	
46	93016,14751,40941	2 53345,96857	2 72367,72898	9,96855,83482,0476	10,40371,39979	27:36
	6,40940,50995	129,41859	120,37604	2,99266,8745	22,19106	
45	93009,73810,89946	2 53216,54998	2 72247,35294	9,96852,84215,1731	10,40349,20873	27: 0
	6,41223,83382	129,30426	120,26140	2,99419,8008	22,18278	
44	93003,32587,06564	2 53087,24572	2 72127,09154	9,96849,84795,3723	10,40327,02595	26:24
	6,41507,13815	129,19007	120,14692	2,99572,7482	22,17451	
43	92996,91079,92749	2 52958,05565	2 72006,94462	9,96846,85222,6241	10,40304,85144	25:48
	6,41790,42294	129,07604	120,03260	2,99725,7166	22,16625	
42	92990,49289,50455	2 52828,97961	2 71886,91202	9,96843,85496,9075	10,40282,68519	25:12
	6,42073,68818	128,96219	119,91843	2,99878,7063	22,15800	
41	92984,07215,81637	2 52700,01742	2 71766,99359	9,96840,85618,2012	10,40260,52719	24:36
	6,42356,93386	128,84848	119,80442	3,00031,7171	22,14977	
40	92977,64858,88251	2 52571,16894	2 71647,18917	9,96837,85586,4841	10,40238,37742	24: 0
	6,42640,15997	128,73492	119,69058	3,00184,7489	22,14153	
39	92971,22218,72254	2 52442,43402	2 71527,49859	9,96834,85401,7352	10,40216,23589	23:24
	6,42923,36651	128,62154	119,57688	3,00337,8020	22,13330	
38	92964,79295,35603	2 52313,81248	2 71407,92171	9,96831,85063,9332	10,40194,10259	22:48
	6,43206,55346	128,50831	119,46335	3,00490,8762	22,12510	
37	92958,36088,80257	2 52185,30417	2 71288,45836	9,96828,84573,0570	10,40171,97749	22:12
	6,43489,72082	128,39523	119,34997	3,00643,9715	22,11689	
36	92951,92599,08175	2 52056,90894	2 71169,10839	9,96825,83929,0855	10,40149,86060	21:36
	6,43772,86858	128,28232	119,23676	3,00797,0882	22,10869	
35	92945,48826,21317	2 51928,62662	2 71049,87163	9,96822,83131,9973	10,40127,75191	21: 0
	6,44055,99673	128,16955	119,12369	3,00950,2260	22,10050	
34	92939,04770,21644	2 51800,45707	2 70930,74794	9,96819,82181,7713	10,40105,65141	20:24
	6,44339,10526	128,05695	119,01078	3,01103,3850	22,09232	

GRAD. 68.

21. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	36926,02139,35149	39734,19412	1 07604,86133	9,56733,25169,6794	9,59916,44091	40:12
	16,21923,67790	20,21023	7,46447	19,07158,7591	22,08416	
68	36942,24063,02939	39754,40435	1 07612,32580	9,56752,32328,4385	9,59938,52507	40:48
	16,21811,14541	20,21303	7,46879	19,06189,3823	22,07599	
69	36958,45874,17480	39774,61738	1 07619,79459	9,56771,38517,8208	9,59960,60106	41:24
	16,21698,56349	20,21584	7,47310	19,05220,8561	22,06784	
70	36974,67572,73829	39794,83322	1 07627,26769	9,56790,43738,6769	9,59982,66890	42: 0
	16,21585,93220	20,21865	7,47742	19,04253,1793	22,05969	
71	36990,89158,67049	39815,05187	1 07634,74511	9,56809,47991,8562	9,60004,72859	42:36
	16,21473,25149	20,22147	7,48174	19,03286,3506	22,05156	
72	37007,10631,92198	39835,27334	1 07642,22685	9,56828,51278,2068	9,60026,78015	43:12
	16,21360,52141	20,22427	7,48606	19,02320,3691	22,04343	
73	37023,31992,44339	39855,49761	1 07649,71291	9,56847,53598,5759	9,60048,82358	43:48
	16,21247,74192	20,22709	7,49038	19,01355,2334	22,03531	
74	37039,53240,18531	39875,72470	1 07657,20329	9,56866,54953,8093	9,60070,85889	44:24
	16,21134,91305	20,22990	7,49470	19,00390,9425	22,02721	
75	37055,74375,09836	39895,95460	1 07664,69799	9,56885,55344,7518	9,60092,88610	45: 0
	16,21022,03481	20,23272	7,49902	18,99427,4950	22,01910	
76	37071,95397,13317	39916,18732	1 07672,19701	9,56904,54772,2468	9,60114,90520	45:36
	16,20909,10717	20,23554	7,50335	18,98464,8900	22,01101	
77	37088,16306,24034	39936,42286	1 07679,70036	9,56923,53237,1368	9,60136,91621	46:12
	16,20796,13017	20,23836	7,50768	18,97503,1261	22,00293	
78	37104,37102,37051	39956,66122	1 07687,20804	9,56942,50740,2629	9,60158,91914	46:48
	16,20683,10379	20,24118	7,51200	18,96542,2024	21,99485	
79	37120,57785,47430	39976,90240	1 07694,72004	9,56961,47282,4653	9,60180,91399	47:24
	16,20570,02805	20,24401	7,51634	18,95582,1174	21,98678	
80	37136,78355,50235	39997,14641	1 07702,23638	9,56980,42864,5827	9,60202,90077	48: 0
	16,20456,90293	20,24683	7,52066	18,94622,8703	21,97873	
81	37152,98812,40528	40017,39324	1 07709,75704	9,56999,37487,4530	9,60224,87950	48:36
	16,20343,72846	20,24966	7,52500	18,93664,4598	21,97068	
82	37169,19156,13374	40037,64290	1 07717,28204	9,57018,31151,9128	9,60246,85018	49:12
	16,20230,50463	20,25250	7,52933	18,92706,8846	21,96264	
83	37185,39386,63837	40057,89540	1 07724,81137	9,57037,23858,7974	9,60268,81282	49:48
	16,20117,23144	20,25532	7,53366	18,91750,1438	21,95460	
84	37201,59503,86981	40078,15072	1 07732,34503	9,57056,15608,9412	9,60290,76742	50:24
	16,20003,90891	20,25816	7,53800	18,90794,2360	21,94658	
85	37217,79507,77872	40098,40888	1 07739,88303	9,57075,06403,1772	9,60312,71400	51: 0
	16,19890,53701	20,26100	7,54233	18,89839,1603	21,93857	
86	37233,99398,31573	40118,66988	1 07747,42536	9,57093,96242,3375	9,60334,65257	51:36
	16,19777,11579	20,26383	7,54668	18,88884,9154	21,93056	
87	37250,19175,43152	40138,93371	1 07754,97204	9,57112,85127,2529	9,60356,58313	52:12
	16,19663,64521	20,26667	7,55102	18,87931,5003	21,92256	
88	37266,38839,07673	40159,20038	1 07762,52306	9,57131,73058,7532	9,60378,50569	52:48
	16,19550,12530	20,26951	7,55535	18,86978,9136	21,91457	
89	37282,58389,20203	40179,46989	1 07770,07841	9,57150,60037,6668	9,60400,42026	53:24
	16,19436,55606	20,27236	7,55970	18,86027,1544	21,90659	
90	37298,77825,75809	40199,74225	1 07777,63811	9,57169,46064,8212	9,60422,32685	54: 0
	16,19322,93748	20,27520	7,56405	18,85076,2216	21,89862	
91	37314,97148,69557	40220,01745	1 07785,20216	9,57188,31141,0428	9,60444,22547	54:36
	16,19209,26958	20,27805	7,56839	18,84126,1137	21,89065	
92	37331,16357,96515	40240,29550	1 07792,77055	9,57207,15267,1565	9,60466,11612	55:12
	16,19095,55235	20,28090	7,57273	18,83176,8301	21,88270	
93	37347,35453,51750	40260,57640	1 07800,34328	9,57225,98443,9866	9,60487,99882	55:48
	16,18981,78580	20,28374	7,57709	18,82228,3692	21,87475	
94	37363,54435,30330	40280,86014	1 07807,92037	9,57244,80672,3558	9,60509,87357	56:24
	16,18867,96994	20,28660	7,58143	18,81280,7301	21,86682	
95	37379,73303,27324	40301,14674	1 07815,50180	9,57263,61953,0859	9,60531,74039	57: 0
	16,18754,10476	20,28945	7,58579	18,80333,9117	21,85888	
96	37395,92057,37800	40321,43619	1 07823,08759	9,57282,42286,9976	9,60553,59927	57:36
	16,18640,19028	20,29231	7,59013	18,79387,9129	21,85096	
97	37412,10697,56828	40341,72850	1 07830,67772	9,57301,21674,9105	9,60575,45023	58:12
	16,18526,22648	20,29517	7,59450	18,78442,7323	21,84305	
98	37428,29223,79476	40362,02367	1 07838,27222	9,57320,00117,6428	9,60597,29328	58:48
	16,18412,21338	20,29803	7,59884	18,77498,3691	21,83514	
99	37444,47636,00814	40382,32170	1 07845,87106	9,57338,77616,0119	9,60619,12842	59:24
	16,18298,15098	20,30088	7,60321	18,76554,8220	21,82724	
100	37460,65934,15912	40402,62258	1 07853,47427	9,57357,54170,8339	9,60640,95566	60: 0
	16,18184,03929	20,30375	7,60756	18,75612,0900	21,81936	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	92932,60431,11118	2 51672,40012	2 70811,73716	9,96816,81078,3863	10,40083,55909	19:48
	6,44622,19416	127,94449	118,89803	3,01256,5653	22,08416	
32	92926,15808,91702	2 51544,45563	2 70692,83913	9,96813,79821,8210	10,40061,47493	19:12
	6,44905,26342	127,83221	118,78544	3,01409,7668	22,07599	
31	92919,70903,65360	2 51416,62342	2 70574,05369	9,96810,78412,0542	10,40039,39894	18:36
	6,45188,31304	127,72007	118,67299	3,01562,9896	22,06784	
30	92913,25715,34056	2 51288,90335	2 70455,38070	9,96807,76849,0646	10,40017,33110	18: 0
	6,45471,34301	127,60808	118,56071	3,01716,2337	22,05969	
29	92906,80243,99755	2 51161,29527	2 70336,81999	9,96804,75132,8309	10,39995,27141	17:24
	6,45754,35331	127,49626	118,44858	3,01869,4990	22,05156	
28	92900,34489,64424	2 51033,79901	2 70218,37141	9,96801,73263,3319	10,39973,21985	16:48
	6,46037,34394	127,38459	118,33661	3,02022,7857	22,04343	
27	92893,88452,30030	2 50906,41442	2 70100,03480	9,96798,71240,5462	10,39951,17642	16:12
	6,46320,31490	127,27306	118,22478	3,02176,0937	22,03531	
26	92887,42131,98540	2 50779,14136	2 69981,81002	9,96795,69064,4525	10,39929,14111	15:36
	6,46603,26616	127,16171	118,11312	3,02329,4231	22,02721	
25	92880,95528,71924	2 50651,97965	2 69863,69690	9,96792,66735,0294	10,39907,11390	15: 0
	6,46886,19773	127,05049	118,00160	3,02482,7737	22,01910	
24	92874,48642,52151	2 50524,92916	2 69745,69530	9,96789,64252,2557	10,39885,09480	14:24
	6,47169,10959	126,93944	117,89025	3,02636,1457	22,01101	
23	92868,01473,41192	2 50397,98972	2 69627,80505	9,96786,61616,1100	10,39863,08379	13:48
	6,47452,00175	126,82853	117,77903	3,02789,5392	22,00293	
22	92861,54021,41017	2 50271,16119	2 69510,02602	9,96783,58826,5708	10,39841,08086	13:12
	6,47734,87417	126,71778	117,66798	3,02942,9540	21,99485	
21	92855,06286,53600	2 50144,44341	2 69392,35804	9,96780,55883,6168	10,39819,08601	12:36
	6,48017,72686	126,60718	117,55708	3,03096,3902	21,98678	
20	92848,58268,80914	2 50017,83623	2 69274,80096	9,96777,52787,2266	10,39797,09923	12: 0
	6,48300,55983	126,49674	117,44633	3,03249,8478	21,97873	
19	92842,09968,24931	2 49891,33949	2 69157,35463	9,96774,49537,3788	10,39775,12050	11:24
	6,48583,37303	126,38645	117,33573	3,03403,3269	21,97068	
18	92835,61384,87628	2 49764,95304	2 69040,01890	9,96771,46134,0519	10,39753,14982	10:48
	6,48866,16648	126,27630	117,22529	3,03556,8274	21,96264	
17	92829,12518,70980	2 49638,67674	2 68922,79361	9,96768,42577,2245	10,39731,18718	10:12
	6,49148,94017	126,16632	117,11499	3,03710,3494	21,95460	
16	92822,63369,76963	2 49512,51042	2 68805,67862	9,96765,38866,8751	10,39709,23258	9:36
	6,49431,69408	126,05648	117,00485	3,03863,8928	21,94658	
15	92816,13938,07555	2 49386,45394	2 68688,67377	9,96762,35002,9823	10,39687,28600	9: 0
	6,49714,42820	125,94679	116,89486	3,04017,4578	21,93857	
14	92809,64223,64735	2 49260,50715	2 68571,77891	9,96759,30985,5245	10,39665,34743	8:24
	6,49997,14254	125,83725	116,78501	3,04171,0441	21,93056	
13	92803,14226,50481	2 49134,66990	2 68454,99390	9,96756,26814,4804	10,39643,41687	7:48
	6,50279,83708	125,72786	116,67533	3,04324,6522	21,92256	
12	92796,63946,66773	2 49008,94204	2 68338,31857	9,96753,22489,8282	10,39621,49431	7:12
	6,50562,51181	125,61864	116,56578	3,04478,2816	21,91457	
11	92790,13384,15592	2 48883,32340	2 68221,75279	9,96750,18011,5466	10,39599,57974	6:36
	6,50845,16672	125,50954	116,45639	3,04631,9326	21,90659	
10	92783,62538,98920	2 48757,81386	2 68105,29640	9,96747,13379,6140	10,39577,67315	6: 0
	6,51127,80180	125,40061	116,34715	3,04785,6052	21,89862	
9	92777,11411,18740	2 48632,41325	2 67988,94925	9,96744,08594,0088	10,39555,77453	5:24
	6,51410,41706	125,29182	116,23806	3,04939,2993	21,89065	
8	92770,60000,77034	2 48507,12143	2 67872,71119	9,96741,03654,7095	10,39533,88388	4:48
	6,51693,01246	125,18319	116,12911	3,05093,0151	21,88270	
7	92764,08307,75788	2 48381,93824	2 67756,58208	9,96737,98561,6944	10,39512,00118	4:12
	6,51975,58802	125,07469	116,02032	3,05246,7524	21,87475	
6	92757,56332,16986	2 48256,86355	2 67640,56176	9,96734,93314,9420	10,39490,12643	3:36
	6,52258,14371	124,96636	115,91167	3,05400,5114	21,86682	
5	92751,04074,02615	2 48131,89719	2 67524,65009	9,96731,87914,4306	10,39468,25961	3: 0
	6,52540,67954	124,85816	115,80317	3,05554,2919	21,85888	
4	92744,51533,34661	2 48007,03903	2 67408,84692	9,96728,82360,1387	10,39446,40073	2:24
	6,52823,19548	124,75012	115,69483	3,05708,0942	21,85096	
3	92737,98710,15113	2 47882,28891	2 67293,15209	9,96725,76652,0445	10,39424,54977	1:48
	6,53105,69155	124,64222	115,58662	3,05861,9180	21,84305	
2	92731,45604,45958	2 47757,64669	2 67177,56547	9,96722,70790,1265	10,39402,70672	1:12
	6,53388,16772	124,53448	115,47856	3,06015,7635	21,83514	
1	92724,92216,29186	2 47633,11221	2 67062,08691	9,96719,64774,3630	10,39380,87158	0:36
	6,53670,62399	124,42687	115,37065	3,06169,6308	21,82724	
0	92718,38545,66787	2 47508,68534	2 66946,71626	9,96716,58604,7322	10,39359,04434	0: 0
	6,53953,06033	124,31942	115,26290	3,06323,5196	21,81936	

GRAD. 68.

22. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
0	37460,65934,15912	40402,62258	1 07853,47427	9,57357,54170,8339	9,60640,95566	0: 0
	16,18184,03929	20,30375	7,60756	18,75612,0900	21,81936	
1	37476,84118,19841	40422,92633	1 07861,08183	9,57376,29782,9239	9,60662,77502	0:36
	16,18069,87830	20,30662	7,61192	18,74670,1720	21,81147	
2	37493,02188,07671	40443,23295	1 07868,69375	9,57395,04453,0959	9,60684,58649	1:12
	16,17955,66803	20,30948	7,61628	18,73729,0667	21,80361	
3	37509,20143,74474	40463,54243	1 07876,31003	9,57413,78182,1626	9,60706,39010	1:48
	16,17841,40847	20,31236	7,62065	18,72788,7731	21,79574	
4	37525,37985,15321	40483,85479	1 07883,93068	9,57432,50970,9357	9,60728,18584	2:24
	16,17727,09962	20,31522	7,62500	18,71849,2902	21,78788	
5	37541,55712,25283	40504,17001	1 07891,55568	9,57451,22820,2259	9,60749,97372	3: 0
	16,17612,74150	20,31809	7,62938	18,70910,6168	21,78004	
6	37557,73324,99433	40524,48810	1 07899,18506	9,57469,93730,8427	9,60771,75376	3:36
	16,17498,33410	20,32097	7,63374	18,69972,7518	21,77220	
7	37573,90823,32843	40544,80907	1 07906,81880	9,57488,63703,5945	9,60793,52596	4:12
	16,17383,87744	20,32385	7,63810	18,69035,6940	21,76437	
8	37590,08207,20587	40565,13292	1 07914,45690	9,57507,32739,2885	9,60815,29033	4:48
	16,17269,37149	20,32672	7,64248	18,68099,4425	21,75655	
9	37606,25476,57736	40585,45964	1 07922,09938	9,57526,00838,7310	9,60837,04688	5:24
	16,17154,81630	20,32960	7,64684	18,67163,9961	21,74874	
10	37622,42631,39366	40605,78924	1 07929,74622	9,57544,68002,7271	9,60858,79562	6: 0
	16,17040,21183	20,33249	7,65122	18,66229,3536	21,74093	
11	37638,59671,60549	40626,12173	1 07937,39744	9,57563,34232,0807	9,60880,53655	6:36
	16,16925,55810	20,33537	7,65559	18,65295,5141	21,73313	
12	37654,76597,16359	40646,45710	1 07945,05303	9,57581,99527,5948	9,60902,26968	7:12
	16,16810,85513	20,33825	7,65997	18,64362,4765	21,72534	
13	37670,93408,01872	40666,79535	1 07952,71300	9,57600,63890,0713	9,60923,99502	7:48
	16,16696,10291	20,34114	7,66434	18,63430,2395	21,71757	
14	37687,10104,12163	40687,13649	1 07960,37734	9,57619,27320,3108	9,60945,71259	8:24
	16,16581,30143	20,34403	7,66872	18,62498,8022	21,70979	
15	37703,26685,42306	40707,48052	1 07968,04606	9,57637,89819,1130	9,60967,42238	9: 0
	16,16466,45071	20,34693	7,67310	18,61568,1635	21,70202	
16	37719,43151,87377	40727,82745	1 07975,71916	9,57656,51387,2765	9,60989,12440	9:36
	16,16351,55075	20,34981	7,67748	18,60638,3222	21,69427	
17	37735,59503,42452	40748,17726	1 07983,39664	9,57675,12025,5987	9,61010,81867	10:12
	16,16236,60156	20,35271	7,68186	18,59709,2774	21,68653	
18	37751,75740,02608	40768,52997	1 07991,07850	9,57693,71734,8761	9,61032,50520	10:48
	16,16121,60312	20,35561	7,68625	18,58781,0278	21,67878	
19	37767,91861,62920	40788,88558	1 07998,76475	9,57712,30515,9039	9,61054,18398	11:24
	16,16006,55547	20,35850	7,69062	18,57853,5726	21,67105	
20	37784,07868,18467	40809,24408	1 08006,45537	9,57730,88369,4765	9,61075,85503	12: 0
	16,15891,45858	20,36140	7,69502	18,56926,9104	21,66333	
21	37800,23759,64325	40829,60548	1 08014,15039	9,57749,45296,3869	9,61097,51836	12:36
	16,15776,31248	20,36431	7,69940	18,56001,0403	21,65561	
22	37816,39535,95573	40849,96979	1 08021,84979	9,57768,01297,4272	9,61119,17397	13:12
	16,15661,11715	20,36721	7,70379	18,55075,9614	21,64791	
23	37832,55197,07288	40870,33700	1 08029,55358	9,57786,56373,3886	9,61140,82188	13:48
	16,15545,87260	20,37012	7,70818	18,54151,6723	21,64020	
24	37848,70742,94548	40890,70712	1 08037,26176	9,57805,10525,0609	9,61162,46208	14:24
	16,15430,57885	20,37302	7,71257	18,53228,1721	21,63252	
25	37864,86173,52433	40911,08014	1 08044,97433	9,57823,63753,2330	9,61184,09460	15: 0
	16,15315,23588	20,37594	7,71697	18,52305,4598	21,62483	
26	37881,01488,76021	40931,45608	1 08052,69130	9,57842,16058,6928	9,61205,71943	15:36
	16,15199,84372	20,37884	7,72136	18,51383,5341	21,61716	
27	37897,16688,60393	40951,83492	1 08060,41266	9,57860,67442,2269	9,61227,33659	16:12
	16,15084,40234	20,38176	7,72575	18,50462,3943	21,60949	
28	37913,31773,00627	40972,21668	1 08068,13841	9,57879,17904,6212	9,61248,94608	16:48
	16,14968,91177	20,38467	7,73015	18,49542,0389	21,60183	
29	37929,46741,91804	40992,60135	1 08075,86856	9,57897,67446,6601	9,61270,54791	17:24
	16,14853,37201	20,38760	7,73455	18,48622,4673	21,59419	
30	37945,61595,29005	41012,98895	1 08083,60311	9,57916,16069,1274	9,61292,14210	18: 0
	16,14737,78305	20,39051	7,73896	18,47703,6781	21,58654	
31	37961,76333,07310	41033,37946	1 08091,34207	9,57934,63772,8055	9,61313,72864	18:36
	16,14622,14491	20,39343	7,74335	18,46785,6703	21,57890	
32	37977,90955,21801	41053,77289	1 08099,08542	9,57953,10558,4758	9,61335,30754	19:12
	16,14506,45758	20,39635	7,74775	18,45868,4431	21,57128	
33	37994,05461,67559	41074,16924	1 08106,83317	9,57971,56426,9189	9,61356,87882	19:48
	16,14390,72107	20,39928	7,75216	18,44951,9951	21,56366	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
100	92718,38545,66787	2 47508,68534	2 66946,71626	9,96716,58604,7322	10,39359,04434	60: 0
	6,53953,06033	124,31942	115,26290	3,06323,5196	21,81936	
99	92711,84592,60754	2 47384,36592	2 66831,45336	9,96713,52281,2126	10,39337,22498	59:24
	6,54235,47677	124,21211	115,15528	3,06477,4303	21,81147	
98	92705,30357,13077	2 47260,15381	2 66716,29808	9,96710,45803,7823	10,39315,41351	58:48
	6,54517,87327	124,10495	115,04781	3,06631,3626	21,80361	
97	92698,75839,25750	2 47136,04886	2 66601,25027	9,96707,39172,4197	10,39293,60990	58:12
	6,54800,24984	123,99793	114,94048	3,06785,3167	21,79574	
96	92692,21039,00766	2 47012,05093	2 66486,30979	9,96704,32387,1030	10,39271,81416	57:36
	6,55082,60645	123,89107	114,83331	3,06939,2926	21,78788	
95	92685,65956,40121	2 46888,15986	2 66371,47648	9,96701,25447,8104	10,39250,02628	57: 0
	6,55364,94312	123,78434	114,72628	3,07093,2902	21,78004	
94	92679,10591,45809	2 46764,37552	2 66256,75020	9,96698,18354,5202	10,39228,24624	56:24
	6,55647,25982	123,67776	114,61939	3,07247,3095	21,77220	
93	92672,54944,19827	2 46640,69776	2 66142,13081	9,96695,11107,2107	10,39206,47404	55:48
	6,55929,55655	123,57133	114,51265	3,07401,3507	21,76437	
92	92665,99014,64172	2 46517,12643	2 66027,61816	9,96692,03705,8600	10,39184,70967	55:12
	6,56211,83329	123,46504	114,40606	3,07555,4137	21,75655	
91	92659,42802,80843	2 46393,66139	2 65913,21210	9,96688,96150,4463	10,39162,95312	54:36
	6,56494,09006	123,35890	114,29960	3,07709,4985	21,74874	
90	92652,86308,71837	2 46270,30249	2 65798,91250	9,96685,88440,9478	10,39141,20438	54: 0
	6,56776,32681	123,25290	114,19329	3,07863,6052	21,74093	
89	92646,29532,39156	2 46147,04959	2 65684,71921	9,96682,80577,3426	10,39119,46345	53:24
	6,57058,54357	123,14704	114,08713	3,08017,7336	21,73313	
88	92639,72473,84799	2 46023,90255	2 65570,63208	9,96679,72559,6090	10,39097,73032	52:48
	6,57340,74030	123,04133	113,98111	3,08171,8840	21,72534	
87	92633,15133,10769	2 45900,86122	2 65456,65097	9,96676,64387,7250	10,39076,00498	52:12
	6,57622,91702	122,93577	113,87523	3,08326,0562	21,71757	
86	92626,57510,19067	2 45777,92545	2 65342,77574	9,96673,56061,6688	10,39054,28741	51:36
	6,57905,07371	122,83034	113,76949	3,08480,2504	21,70979	
85	92619,99605,11696	2 45655,09511	2 65229,00625	9,96670,47581,4184	10,39032,57762	51: 0
	6,58187,21034	122,72506	113,66391	3,08634,4664	21,70202	
84	92613,41417,90662	2 45532,37005	2 65115,34234	9,96667,38946,9520	10,39010,87560	50:24
	6,58469,32694	122,61991	113,55846	3,08788,7044	21,69427	
83	92606,82948,57968	2 45409,75014	2 65001,78388	9,96664,30158,2476	10,38989,18133	49:48
	6,58751,42347	122,51493	113,45315	3,08942,9642	21,68653	
82	92600,24197,15621	2 45287,23521	2 64888,33073	9,96661,21215,2834	10,38967,49480	49:12
	6,59033,49993	122,41006	113,34798	3,09097,2461	21,67878	
81	92593,65163,65628	2 45164,82515	2 64774,98275	9,96658,12118,0373	10,38945,81602	48:36
	6,59315,55633	122,30536	113,24297	3,09251,5499	21,67105	
80	92587,05848,09995	2 45042,51979	2 64661,73978	9,96655,02866,4874	10,38924,14497	48: 0
	6,59597,59264	122,20079	113,13808	3,09405,8757	21,66333	
79	92580,46250,50731	2 44920,31900	2 64548,60170	9,96651,93460,6117	10,38902,48164	47:24
	6,59879,60885	122,09635	113,03335	3,09560,2234	21,65561	
78	92573,86370,89846	2 44798,22265	2 64435,56835	9,96648,83900,3883	10,38880,82603	46:48
	6,60161,60497	121,99207	112,92874	3,09714,5932	21,64791	
77	92567,26209,29349	2 44676,23058	2 64322,63961	9,96645,74185,7951	10,38859,17812	46:12
	6,60443,58097	121,88793	112,82429	3,09868,9850	21,64020	
76	92560,65765,71252	2 44554,34265	2 64209,81532	9,96642,64316,8101	10,38837,53792	45:36
	6,60725,53686	121,78391	112,71997	3,10023,3989	21,63252	
75	92554,05040,17566	2 44432,55874	2 64097,09535	9,96639,54293,4112	10,38815,90540	45: 0
	6,61007,47261	121,68005	112,61580	3,10177,8347	21,62483	
74	92547,44032,70305	2 44310,87869	2 63984,47955	9,96636,44115,5765	10,38794,28057	44:24
	6,61289,38824	121,57633	112,51176	3,10332,2926	21,61716	
73	92540,82743,31481	2 44189,30236	2 63871,96779	9,96633,33783,2839	10,38772,66341	43:48
	6,61571,28373	121,47274	112,40786	3,10486,7727	21,60949	
72	92534,21172,03108	2 44067,82962	2 63759,55993	9,96630,23296,5112	10,38751,05392	43:12
	6,61853,15904	121,36930	112,30410	3,10641,2747	21,60183	
71	92527,59318,87204	2 43946,46032	2 63647,25583	9,96627,12655,2365	10,38729,45209	42:36
	6,62135,01422	121,26599	112,20049	3,10795,7990	21,59419	
70	92520,97183,85782	2 43825,19433	2 63535,05534	9,96624,01859,4375	10,38707,85790	42: 0
	6,62416,84921	121,16282	112,09701	3,10950,3453	21,58654	
69	92514,34767,00861	2 43704,03151	2 63422,95833	9,96620,90909,0922	10,38686,27136	41:24
	6,62698,66403	121,05979	111,99367	3,11104,9137	21,57890	
68	92507,72068,34458	2 43582,97172	2 63310,96466	9,96617,79804,1785	10,38664,69246	40:48
	6,62980,45866	120,95691	111,89047	3,11259,5043	21,57128	
67	92501,09087,88592	2 43462,01481	2 63199,07419	9,96614,68544,6742	10,38643,12118	40:12
	6,63262,23310	120,85415	111,78740	3,11414,1172	21,56366	

GRAD. 67.

22. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	37994,05461,67559	41074,16924	1 08106,83317	9,57971,56426,9189	9,61356,87882	19:48
	16,14390,72107	20,39928	7,75216	18,44951,9951	21,56366	
34	38010,19852,39666	41094,56852	1 08114,58533	9,57990,01378,9140	9,61378,44248	20:24
	16,14274,93539	20,40220	7,75657	18,44036,3255	21,55605	
35	38026,34127,33205	41114,97072	1 08122,34190	9,58008,45415,2395	9,61399,99853	21: 0
	16,14159,10053	20,40514	7,76097	18,43121,4331	21,54845	
36	38042,48286,43258	41135,37586	1 08130,10287	9,58026,88536,6726	9,61421,54698	21:36
	16,14043,21649	20,40806	7,76538	18,42207,3169	21,54086	
37	38058,62329,64907	41155,78392	1 08137,86825	9,58045,30743,9895	9,61443,08784	22:12
	16,13927,28330	20,41099	7,76979	18,41293,9760	21,53326	
38	38074,76256,93237	41176,19491	1 08145,63804	9,58063,72037,9655	9,61464,62110	22:48
	16,13811,30095	20,41393	7,77420	18,40381,4091	21,52569	
39	38090,90068,23332	41196,60884	1 08153,41224	9,58082,12419,3746	9,61486,14679	23:24
	16,13695,26942	20,41687	7,77862	18,39469,6155	21,51812	
40	38107,03763,50274	41217,02571	1 08161,19086	9,58100,51888,9901	9,61507,66491	24: 0
	16,13579,18875	20,41980	7,78303	18,38558,5937	21,51056	
41	38123,17342,69149	41237,44551	1 08168,97389	9,58118,90447,5838	9,61529,17547	24:36
	16,13463,05892	20,42274	7,78744	18,37648,3431	21,50300	
42	38139,30805,75041	41257,86825	1 08176,76133	9,58137,28095,9269	9,61550,67847	25:12
	16,13346,87995	20,42569	7,79187	18,36738,8624	21,49546	
43	38155,44152,63036	41278,29394	1 08184,55320	9,58155,64834,7893	9,61572,17393	25:48
	16,13230,65182	20,42862	7,79628	18,35830,1508	21,48791	
44	38171,57383,28218	41298,72256	1 08192,34948	9,58174,00664,9401	9,61593,66184	26:24
	16,13114,37457	20,43157	7,80070	18,34922,2069	21,48039	
45	38187,70497,65675	41319,15413	1 08200,15018	9,58192,35587,1470	9,61615,14223	27: 0
	16,12998,04816	20,43452	7,80512	18,34015,0301	21,47286	
46	38203,83495,70491	41339,58865	1 08207,95530	9,58210,69602,1771	9,61636,61509	27:36
	16,12881,67262	20,43747	7,80954	18,33108,6191	21,46535	
47	38219,96377,37753	41360,02612	1 08215,76484	9,58229,02710,7962	9,61658,08044	28:12
	16,12765,24796	20,44042	7,81397	18,32202,9729	21,45784	
48	38236,09142,62549	41380,46654	1 08223,57881	9,58247,34913,7691	9,61679,53828	28:48
	16,12648,77416	20,44337	7,81840	18,31298,0906	21,45034	
49	38252,21791,39965	41400,90991	1 08231,39721	9,58265,66211,8597	9,61700,98862	29:24
	16,12532,25125	20,44633	7,82282	18,30393,9711	21,44285	
50	38268,34323,65090	41421,35624	1 08239,22003	9,58283,96605,8308	9,61722,43147	30: 0
	16,12415,67920	20,44928	7,82725	18,29490,6134	21,43536	
51	38284,46739,33010	41441,80552	1 08247,04728	9,58302,26096,4442	9,61743,86683	30:36
	16,12299,05805	20,45224	7,83168	18,28588,0164	21,42789	
52	38300,59038,38815	41462,25776	1 08254,87896	9,58320,54684,4606	9,61765,29472	31:12
	16,12182,38778	20,45520	7,83611	18,27686,1792	21,42042	
53	38316,71220,77593	41482,71296	1 08262,71507	9,58338,82370,6398	9,61786,71514	31:48
	16,12065,66840	20,45817	7,84055	18,26785,1007	21,41296	
54	38332,83286,44433	41503,17113	1 08270,55562	9,58357,09155,7405	9,61808,12810	32:24
	16,11948,89991	20,46112	7,84498	18,25884,7800	21,40551	
55	38348,95235,34424	41523,63225	1 08278,40060	9,58375,35040,5205	9,61829,53361	33: 0
	16,11832,08232	20,46410	7,84941	18,24985,2159	21,39807	
56	38365,07067,42656	41544,09635	1 08286,25001	9,58393,60025,7364	9,61850,93168	33:36
	16,11715,21564	20,46706	7,85385	18,24086,4077	21,39063	
57	38381,18782,64220	41564,56341	1 08294,10386	9,58411,84112,1441	9,61872,32231	34:12
	16,11598,29985	20,47003	7,85829	18,23188,3540	21,38319	
58	38397,30380,94205	41585,03344	1 08301,96215	9,58430,07300,4981	9,61893,70550	34:48
	16,11481,33498	20,47300	7,86273	18,22291,0541	21,37578	
59	38413,41862,27703	41605,50644	1 08309,82488	9,58448,29591,5522	9,61915,08128	35:24
	16,11364,32101	20,47598	7,86718	18,21394,5069	21,36837	
60	38429,53226,59804	41625,98242	1 08317,69206	9,58466,50986,0591	9,61936,44965	36: 0
	16,11247,25796	20,47895	7,87161	18,20498,7113	21,36095	
61	38445,64473,85600	41646,46137	1 08325,56367	9,58484,71484,7704	9,61957,81060	36:36
	16,11130,14583	20,48193	7,87606	18,19603,6666	21,35356	
62	38461,75604,00183	41666,94330	1 08333,43973	9,58502,91088,4370	9,61979,16416	37:12
	16,11012,98462	20,48491	7,88051	18,18709,3713	21,34617	
63	38477,86616,98645	41687,42821	1 08341,32024	9,58521,09797,8083	9,62000,51033	37:48
	16,10895,77434	20,48789	7,88495	18,17815,8250	21,33879	
64	38493,97512,76079	41707,91610	1 08349,20519	9,58539,27613,6333	9,62021,84912	38:24
	16,10778,51499	20,49087	7,88940	18,16923,0262	21,33141	
65	38510,08291,27578	41728,40697	1 08357,09459	9,58557,44536,6595	9,62043,18053	39: 0
	16,10661,20657	20,49386	7,89385	18,16030,9742	21,32405	
66	38526,18952,48235	41748,90083	1 08364,98844	9,58575,60567,6337	9,62064,50458	39:36
	16,10543,84908	20,49684	7,89831	18,15139,6679	21,31668	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	92501,09087,88592	2 43462,01481	2 63199,07419	9,96614,68544,6742	10,38643,12118	40:12
	6,63262,23310	120,85415	111,78740	3,11414,1172	21,56366	
66	92494,45825,65282	2 43341,16066	2 63087,28679	9,96611,57130,5570	10,38621,55752	39:36
	6,63543,98732	120,75154	111,68448	3,11568,7520	21,55605	
65	92487,82281,66550	2 43220,40912	2 62975,60231	9,96608,45561,8050	10,38600,00147	39: 0
	6,63825,72135	120,64907	111,58169	3,11723,4092	21,54845	
64	92481,18455,94415	2 43099,76005	2 62864,02062	9,96605,33838,3958	10,38578,45302	38:24
	6,64107,43514	120,54673	111,47904	3,11878,0885	21,54086	
63	92474,54348,50901	2 42979,21332	2 62752,54158	9,96602,21960,3073	10,38556,91216	37:48
	6,64389,12872	120,44453	111,37654	3,12032,7900	21,53326	
62	92467,89959,38029	2 42858,76879	2 62641,16504	9,96599,09927,5173	10,38535,37890	37:12
	6,64670,80204	120,34247	111,27415	3,12187,5138	21,52569	
61	92461,25288,57825	2 42738,42632	2 62529,89089	9,96595,97740,0035	10,38513,85321	36:36
	6,64952,45512	120,24055	111,17192	3,12342,2599	21,51812	
60	92454,60336,12313	2 42618,18577	2 62418,71897	9,96592,85397,7436	10,38492,33509	36: 0
	6,65234,08795	120,13876	111,06981	3,12497,0281	21,51056	
59	92447,95102,03518	2 42498,04701	2 62307,64916	9,96589,72900,7155	10,38470,82453	35:24
	6,65515,70051	120,03710	110,96785	3,12651,8187	21,50300	
58	92441,29586,33467	2 42378,00991	2 62196,68131	9,96586,60248,8968	10,38449,32153	34:48
	6,65797,29280	119,93559	110,86602	3,12806,6316	21,49546	
57	92434,63789,04187	2 42258,07432	2 62085,81529	9,96583,47442,2652	10,38427,82607	34:12
	6,66078,86481	119,83421	110,76433	3,12961,4667	21,48791	
56	92427,97710,17706	2 42138,24011	2 61975,05096	9,96580,34480,7985	10,38406,33816	33:36
	6,66360,41653	119,73296	110,66277	3,13116,3241	21,48039	
55	92421,31349,76053	2 42018,50715	2 61864,38819	9,96577,21364,4744	10,38384,85777	33: 0
	6,66641,94794	119,63186	110,56135	3,13271,2040	21,47286	
54	92414,64707,81259	2 41898,87529	2 61753,82684	9,96574,08093,2704	10,38363,38491	32:24
	6,66923,45907	119,53089	110,46006	3,13426,1061	21,46535	
53	92407,97784,35352	2 41779,34440	2 61643,36678	9,96570,94667,1643	10,38341,91956	31:48
	6,67204,94985	119,43004	110,35891	3,13581,0306	21,45784	
52	92401,30579,40367	2 41659,91436	2 61533,00787	9,96567,81086,1337	10,38320,46172	31:12
	6,67486,42033	119,32935	110,25789	3,13735,9775	21,45034	
51	92394,63092,98334	2 41540,58501	2 61422,74998	9,96564,67350,1562	10,38299,01138	30:36
	6,67767,87047	119,22877	110,15700	3,13890,9467	21,44285	
50	92387,95325,11287	2 41421,35624	2 61312,59298	9,96561,53459,2095	10,38277,56853	30: 0
	6,68049,30027	119,12834	110,05626	3,14045,9385	21,43536	
49	92381,27275,81260	2 41302,22790	2 61202,53672	9,96558,39413,2710	10,38256,13317	29:24
	6,68330,70972	119,02805	109,95565	3,14200,9525	21,42789	
48	92374,58945,10288	2 41183,19985	2 61092,58107	9,96555,25212,3185	10,38234,70528	28:48
	6,68612,09881	118,92787	109,85516	3,14355,9890	21,42042	
47	92367,90333,00407	2 41064,27198	2 60982,72591	9,96552,10856,3295	10,38213,28486	28:12
	6,68893,46753	118,82784	109,75481	3,14511,0480	21,41296	
46	92361,21439,53654	2 40945,44414	2 60872,97110	9,96548,96345,2815	10,38191,87190	27:36
	6,69174,81588	118,72795	109,65460	3,14666,1294	21,40551	
45	92354,52264,72066	2 40826,71619	2 60763,31650	9,96545,81679,1521	10,38170,46639	27: 0
	6,69456,14384	118,62817	109,55452	3,14821,2334	21,39807	
44	92347,82808,57682	2 40708,08802	2 60653,76198	9,96542,66857,9187	10,38149,06832	26:24
	6,69737,45141	118,52855	109,45457	3,14976,3597	21,39063	
43	92341,13071,12541	2 40589,55947	2 60544,30741	9,96539,51881,5590	10,38127,67769	25:48
	6,70018,73858	118,42904	109,35475	3,15131,5086	21,38319	
42	92334,43052,38683	2 40471,13043	2 60434,95266	9,96536,36750,0504	10,38106,29450	25:12
	6,70300,00534	118,32968	109,25506	3,15286,6800	21,37578	
41	92327,72752,38149	2 40352,80075	2 60325,69760	9,96533,21463,3704	10,38084,91872	24:36
	6,70581,25168	118,23044	109,15552	3,15441,8739	21,36837	
40	92321,02171,12981	2 40234,57031	2 60216,54208	9,96530,06021,4965	10,38063,55035	24: 0
	6,70862,47760	118,13134	109,05610	3,15597,0904	21,36095	
39	92314,31308,65221	2 40116,43897	2 60107,48598	9,96526,90424,4061	10,38042,18940	23:24
	6,71143,68307	118,03236	108,95680	3,15752,3295	21,35356	
38	92307,60164,96914	2 39998,40661	2 59998,52918	9,96523,74672,0766	10,38020,83584	22:48
	6,71424,86810	117,93353	108,85765	3,15907,5911	21,34617	
37	92300,88740,10104	2 39880,47308	2 59889,67153	9,96520,58764,4855	10,37999,48967	22:12
	6,71706,03269	117,83481	108,75862	3,16062,8753	21,33879	
36	92294,17034,06835	2 39762,63827	2 59780,91291	9,96517,42701,6102	10,37978,15088	21:36
	6,71987,17681	117,73624	108,65973	3,16218,1821	21,33141	
35	92287,45046,89154	2 39644,90203	2 59672,25318	9,96514,26483,4281	10,37956,81947	21: 0
	6,72268,30045	117,63779	108,56097	3,16373,5116	21,32405	
34	92280,72778,59109	2 39527,26424	2 59563,69221	9,96511,10109,9165	10,37935,49542	20:24
	6,72549,40363	117,53947	108,46233	3,16528,8636	21,31668	

GRAD. 67.

22. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	38542,29496,33143	41769,39767	1 08372,88675	9,58593,75707,3016	9,62085,82126	40:12
	16,10426,44254	20,49983	7,90275	18,14249,1064	21,30934	
68	38558,39922,77397	41789,89750	1 08380,78950	9,58611,89956,4080	9,62107,13060	40:48
	16,10308,98693	20,50283	7,90721	18,13359,2885	21,30199	
69	38574,50231,76090	41810,40033	1 08388,69671	9,58630,03315,6965	9,62128,43259	41:24
	16,10191,48229	20,50581	7,91167	18,12470,2135	21,29465	
70	38590,60423,24319	41830,90614	1 08396,60838	9,58648,15785,9100	9,62149,72724	42: 0
	16,10073,92858	20,50881	7,91613	18,11581,8802	21,28732	
71	38606,70497,17177	41851,41495	1 08404,52451	9,58666,27367,7902	9,62171,01456	42:36
	16,09956,32583	20,51181	7,92058	18,10694,2878	21,28000	
72	38622,80453,49760	41871,92676	1 08412,44509	9,58684,38062,0780	9,62192,29456	43:12
	16,09838,67404	20,51480	7,92504	18,09807,4350	21,27269	
73	38638,90292,17164	41892,44156	1 08420,37013	9,58702,47869,5130	9,62213,56725	43:48
	16,09720,97322	20,51781	7,92951	18,08921,3213	21,26539	
74	38655,00013,14486	41912,95937	1 08428,29964	9,58720,56790,8343	9,62234,83264	44:24
	16,09603,22335	20,52081	7,93397	18,08035,9453	21,25808	
75	38671,09616,36821	41933,48018	1 08436,23361	9,58738,64826,7796	9,62256,09072	45: 0
	16,09485,42445	20,52381	7,93844	18,07151,3062	21,25079	
76	38687,19101,79266	41954,00399	1 08444,17205	9,58756,71978,0858	9,62277,34151	45:36
	16,09367,57653	20,52681	7,94290	18,06267,4030	21,24351	
77	38703,28469,36919	41974,53080	1 08452,11495	9,58774,78245,4888	9,62298,58502	46:12
	16,09249,67959	20,52983	7,94736	18,05384,2348	21,23624	
78	38719,37719,04878	41995,06063	1 08460,06231	9,58792,83629,7236	9,62319,82126	46:48
	16,09131,73362	20,53283	7,95184	18,04501,8006	21,22897	
79	38735,46850,78240	42015,59346	1 08468,01415	9,58810,88131,5242	9,62341,05023	47:24
	16,09013,73863	20,53585	7,95631	18,03620,0993	21,22170	
80	38751,55864,52103	42036,12931	1 08475,97046	9,58828,91751,6235	9,62362,27193	48: 0
	16,08895,69464	20,53886	7,96078	18,02739,1300	21,21445	
81	38767,64760,21567	42056,66817	1 08483,93124	9,58846,94490,7535	9,62383,48638	48:36
	16,08777,60162	20,54187	7,96525	18,01858,8920	21,20721	
82	38783,73537,81729	42077,21004	1 08491,89649	9,58864,96349,6455	9,62404,69359	49:12
	16,08659,45962	20,54490	7,96973	18,00979,3838	21,19997	
83	38799,82197,27691	42097,75494	1 08499,86622	9,58882,97329,0293	9,62425,89356	49:48
	16,08541,26860	20,54791	7,97421	18,00100,6050	21,19274	
84	38815,90738,54551	42118,30285	1 08507,84043	9,58900,97429,6343	9,62447,08630	50:24
	16,08423,02858	20,55093	7,97868	17,99222,5543	21,18552	
85	38831,99161,57409	42138,85378	1 08515,81911	9,58918,96652,1886	9,62468,27182	51: 0
	16,08304,73957	20,55396	7,98317	17,98345,2308	21,17830	
86	38848,07466,31366	42159,40774	1 08523,80228	9,58936,94997,4194	9,62489,45012	51:36
	16,08186,40157	20,55698	7,98764	17,97468,6335	21,17109	
87	38864,15652,71523	42179,96472	1 08531,78992	9,58954,92466,0529	9,62510,62121	52:12
	16,08068,01458	20,56000	7,99213	17,96592,7617	21,16389	
88	38880,23720,72981	42200,52472	1 08539,78205	9,58972,89058,8146	9,62531,78510	52:48
	16,07949,57860	20,56304	7,99661	17,95717,6141	21,15670	
89	38896,31670,30841	42221,08776	1 08547,77866	9,58990,84776,4287	9,62552,94180	53:24
	16,07831,09365	20,56607	8,00109	17,94843,1900	21,14952	
90	38912,39501,40206	42241,65383	1 08555,77975	9,59008,79619,6187	9,62574,09132	54: 0
	16,07712,55972	20,56910	8,00559	17,93969,4884	21,14233	
91	38928,47213,96178	42262,22293	1 08563,78534	9,59026,73589,1071	9,62595,23365	54:36
	16,07593,97681	20,57213	8,01007	17,93096,5082	21,13517	
92	38944,54807,93859	42282,79506	1 08571,79541	9,59044,66685,6153	9,62616,36882	55:12
	16,07475,34493	20,57518	8,01456	17,92224,2486	21,12800	
93	38960,62283,28352	42303,37024	1 08579,80997	9,59062,58909,8639	9,62637,49682	55:48
	16,07356,66408	20,57821	8,01905	17,91352,7086	21,12085	
94	38976,69639,94760	42323,94845	1 08587,82902	9,59080,50262,5725	9,62658,61767	56:24
	16,07237,93428	20,58125	8,02355	17,90481,8874	21,11370	
95	38992,76877,88188	42344,52970	1 08595,85257	9,59098,40744,4599	9,62679,73137	57: 0
	16,07119,15552	20,58429	8,02804	17,89611,7838	21,10656	
96	39008,83997,03740	42365,11399	1 08603,88061	9,59116,30356,2437	9,62700,83793	57:36
	16,07000,32779	20,58734	8,03253	17,88742,3971	21,09942	
97	39024,90997,36519	42385,70133	1 08611,91314	9,59134,19098,6408	9,62721,93735	58:12
	16,06881,45112	20,59038	8,03704	17,87873,7262	21,09230	
98	39040,97878,81631	42406,29171	1 08619,95018	9,59152,06972,3670	9,62743,02965	58:48
	16,06762,52550	20,59343	8,04153	17,87005,7703	21,08518	
99	39057,04641,34181	42426,88514	1 08627,99171	9,59169,93978,1373	9,62764,11483	59:24
	16,06643,55093	20,59648	8,04603	17,86138,5282	21,07807	
100	39073,11284,89274	42447,48162	1 08636,03774	9,59187,80116,6655	9,62785,19290	60: 0
	16,06524,52742	20,59953	8,05053	17,85271,9994	21,07096	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	92274,00229,18746	2 39409,72477	2 59455,22988	9,96507,93581,0529	10,37914,17874	19:48
	6,72830,48631	117,44129	108,36382	3,16684,2383	21,30934	
32	92267,27398,70115	2 39292,28348	2 59346,86606	9,96504,76896,8146	10,37892,86940	19:12
	6,73111,54850	117,34323	108,26545	3,16839,6357	21,30199	
31	92260,54287,15265	2 39174,94025	2 59238,60061	9,96501,60057,1789	10,37871,56741	18:36
	6,73392,59019	117,24530	108,16721	3,16995,0558	21,29465	
30	92253,80894,56246	2 39057,69495	2 59130,43340	9,96498,43062,1231	10,37850,27276	18: 0
	6,73673,61135	117,14751	108,06909	3,17150,4985	21,28732	
29	92247,07220,95111	2 38940,54744	2 59022,36431	9,96495,25911,6246	10,37828,98544	17:24
	6,73954,61201	117,04984	107,97111	3,17305,9639	21,28000	
28	92240,33266,33910	2 38823,49760	2 58914,39320	9,96492,08605,6607	10,37807,70544	16:48
	6,74235,59213	116,95230	107,87325	3,17461,4521	21,27269	
27	92233,59030,74697	2 38706,54530	2 58806,51995	9,96488,91144,2086	10,37786,43275	16:12
	6,74516,55171	116,85489	107,77552	3,17616,9630	21,26539	
26	92226,84514,19526	2 38589,69041	2 58698,74443	9,96485,73527,2456	10,37765,16736	15:36
	6,74797,49074	116,75761	107,67792	3,17772,4966	21,25808	
25	92220,09716,70452	2 38472,93280	2 58591,06651	9,96482,55754,7490	10,37743,90928	15: 0
	6,75078,40923	116,66046	107,58045	3,17928,0530	21,25079	
24	92213,34638,29529	2 38356,27234	2 58483,48606	9,96479,37826,6960	10,37722,65849	14:24
	6,75359,30714	116,56344	107,48311	3,18083,6322	21,24351	
23	92206,59278,98815	2 38239,70890	2 58376,00295	9,96476,19743,0638	10,37701,41498	13:48
	6,75640,18448	116,46654	107,38590	3,18239,2342	21,23624	
22	92199,83638,80367	2 38123,24236	2 58268,61705	9,96473,01503,8296	10,37680,17874	13:12
	6,75921,04125	116,36977	107,28881	3,18394,8590	21,22897	
21	92193,07717,76242	2 38006,87259	2 58161,32824	9,96469,83108,9706	10,37658,94977	12:36
	6,76201,87741	116,27314	107,19185	3,18550,5066	21,22170	
20	92186,31515,88501	2 37890,59945	2 58054,13639	9,96466,64558,4640	10,37637,72807	12: 0
	6,76482,69300	116,17662	107,09502	3,18706,1770	21,21445	
19	92179,55033,19201	2 37774,42283	2 57947,04137	9,96463,45852,2870	10,37616,51362	11:24
	6,76763,48796	116,08023	106,99831	3,18861,8702	21,20721	
18	92172,78269,70405	2 37658,34260	2 57840,04306	9,96460,26990,4168	10,37595,30641	10:48
	6,77044,26231	115,98398	106,90173	3,19017,5865	21,19997	
17	92166,01225,44174	2 37542,35862	2 57733,14133	9,96457,07972,8303	10,37574,10644	10:12
	6,77325,01603	115,88785	106,80528	3,19173,3254	21,19274	
16	92159,23900,42571	2 37426,47077	2 57626,33605	9,96453,88799,5049	10,37552,91370	9:36
	6,77605,74914	115,79184	106,70896	3,19329,0874	21,18552	
15	92152,46294,67657	2 37310,67893	2 57519,62709	9,96450,69470,4175	10,37531,72818	9: 0
	6,77886,46159	115,69596	106,61276	3,19484,8722	21,17830	
14	92145,68408,21498	2 37194,98297	2 57413,01433	9,96447,49985,5453	10,37510,54988	8:24
	6,78167,15339	115,60021	106,51668	3,19640,6800	21,17109	
13	92138,90241,06159	2 37079,38276	2 57306,49765	9,96444,30344,8653	10,37489,37879	7:48
	6,78447,82454	115,50458	106,42074	3,19796,5106	21,16389	
12	92132,11793,23705	2 36963,87818	2 57200,07691	9,96441,10548,3547	10,37468,21490	7:12
	6,78728,47501	115,40908	106,32491	3,19952,3643	21,15670	
11	92125,33064,76204	2 36848,46910	2 57093,75200	9,96437,90595,9904	10,37447,05820	6:36
	6,79009,10483	115,31370	106,22922	3,20108,2409	21,14952	
10	92118,54055,65721	2 36733,15540	2 56987,52278	9,96434,70487,7495	10,37425,90868	6: 0
	6,79289,71394	115,21846	106,13365	3,20264,1404	21,14233	
9	92111,74765,94327	2 36617,93694	2 56881,38913	9,96431,50223,6091	10,37404,76635	5:24
	6,79570,30237	115,12333	106,03820	3,20420,0631	21,13517	
8	92104,95195,64090	2 36502,81361	2 56775,35093	9,96428,29803,5460	10,37383,63118	4:48
	6,79850,87010	115,02833	105,94287	3,20576,0086	21,12800	
7	92098,15344,77080	2 36387,78528	2 56669,40806	9,96425,09227,5374	10,37362,50318	4:12
	6,80131,41712	114,93345	105,84768	3,20731,9772	21,12085	
6	92091,35213,35368	2 36272,85183	2 56563,56038	9,96421,88495,5602	10,37341,38233	3:36
	6,80411,94342	114,83870	105,75261	3,20887,9689	21,11370	
5	92084,54801,41026	2 36158,01313	2 56457,80777	9,96418,67607,5913	10,37320,26863	3: 0
	6,80692,44899	114,74407	105,65765	3,21043,9836	21,10656	
4	92077,74108,96127	2 36043,26906	2 56352,15012	9,96415,46563,6077	10,37299,16207	2:24
	6,80972,93383	114,64956	105,56283	3,21200,0214	21,09942	
3	92070,93136,02744	2 35928,61950	2 56246,58729	9,96412,25363,5863	10,37278,06265	1:48
	6,81253,39792	114,55519	105,46813	3,21356,0822	21,09230	
2	92064,11882,62952	2 35814,06431	2 56141,11916	9,96409,04007,5041	10,37256,97035	1:12
	6,81533,84127	114,46093	105,37354	3,21512,1662	21,08518	
1	92057,30348,78825	2 35699,60338	2 56035,74562	9,96405,82495,3379	10,37235,88517	0:36
	6,81814,26385	114,36680	105,27910	3,21668,2732	21,07807	
0	92050,48534,52440	2 35585,23658	2 55930,46652	9,96402,60827,0647	10,37214,80710	0: 0
	6,82094,66566	114,27278	105,18475	3,21824,4034	21,07096	

GRAD. 67.

23. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
0	39073,11284,89274	42447,48162	1 08636,03774	9,59187,80116,6655	9,62785,19290	0: 0
	16,06524,52742	20,59953	8,05053	17,85271,9994	21,07096	
1	39089,17809,42016	42468,08115	1 08644,08827	9,59205,65388,6649	9,62806,26386	0:36
	16,06405,45498	20,60259	8,05504	17,84406,1825	21,06387	
2	39105,24214,87514	42488,68374	1 08652,14331	9,59223,49794,8474	9,62827,32773	1:12
	16,06286,33360	20,60564	8,05954	17,83541,0770	21,05678	
3	39121,30501,20874	42509,28938	1 08660,20285	9,59241,33335,9244	9,62848,38451	1:48
	16,06167,16328	20,60871	8,06405	17,82676,6816	21,04969	
4	39137,36668,37202	42529,89809	1 08668,26690	9,59259,16012,6060	9,62869,43420	2:24
	16,06047,94406	20,61176	8,06856	17,81812,9956	21,04262	
5	39153,42716,31608	42550,50985	1 08676,33546	9,59276,97825,6016	9,62890,47682	3: 0
	16,05928,67589	20,61482	8,07306	17,80950,0179	21,03556	
6	39169,48644,99197	42571,12467	1 08684,40852	9,59294,78775,6195	9,62911,51238	3:36
	16,05809,35881	20,61788	8,07758	17,80087,7479	21,02849	
7	39185,54454,35078	42591,74255	1 08692,48610	9,59312,58863,3674	9,62932,54087	4:12
	16,05689,99282	20,62096	8,08208	17,79226,1844	21,02144	
8	39201,60144,34360	42612,36351	1 08700,56818	9,59330,38089,5518	9,62953,56231	4:48
	16,05570,57792	20,62402	8,08661	17,78365,3264	21,01440	
9	39217,65714,92152	42632,98753	1 08708,65479	9,59348,16454,8782	9,62974,57671	5:24
	16,05451,11409	20,62708	8,09111	17,77505,1733	21,00736	
10	39233,71166,03561	42653,61461	1 08716,74590	9,59365,93960,0515	9,62995,58407	6: 0
	16,05331,60138	20,63016	8,09564	17,76645,7240	21,00032	
11	39249,76497,63699	42674,24477	1 08724,84154	9,59383,70605,7755	9,63016,58439	6:36
	16,05212,03976	20,63324	8,10015	17,75786,9774	20,99331	
12	39265,81709,67675	42694,87801	1 08732,94169	9,59401,46392,7529	9,63037,57770	7:12
	16,05092,42924	20,63631	8,10467	17,74928,9330	20,98628	
13	39281,86802,10599	42715,51432	1 08741,04636	9,59419,21321,6859	9,63058,56398	7:48
	16,04972,76983	20,63938	8,10919	17,74071,5895	20,97928	
14	39297,91774,87582	42736,15370	1 08749,15555	9,59436,95393,2754	9,63079,54326	8:24
	16,04853,06152	20,64247	8,11372	17,73214,9463	20,97228	
15	39313,96627,93734	42756,79617	1 08757,26927	9,59454,68608,2217	9,63100,51554	9: 0
	16,04733,30433	20,64554	8,11824	17,72359,0022	20,96528	
16	39330,01361,24167	42777,44171	1 08765,38751	9,59472,40967,2239	9,63121,48082	9:36
	16,04613,49827	20,64863	8,12276	17,71503,7566	20,95829	
17	39346,05974,73994	42798,09034	1 08773,51027	9,59490,12470,9805	9,63142,43911	10:12
	16,04493,64331	20,65171	8,12729	17,70649,2083	20,95132	
18	39362,10468,38325	42818,74205	1 08781,63756	9,59507,83120,1888	9,63163,39043	10:48
	16,04373,73948	20,65481	8,13183	17,69795,3566	20,94434	
19	39378,14842,12273	42839,39686	1 08789,76939	9,59525,52915,5454	9,63184,33477	11:24
	16,04253,78678	20,65789	8,13635	17,68942,2005	20,93737	
20	39394,19095,90951	42860,05475	1 08797,90574	9,59543,21857,7459	9,63205,27214	12: 0
	16,04133,78522	20,66098	8,14088	17,68089,7391	20,93042	
21	39410,23229,69473	42880,71573	1 08806,04662	9,59560,89947,4850	9,63226,20256	12:36
	16,04013,73478	20,66407	8,14542	17,67237,9716	20,92346	
22	39426,27243,42951	42901,37980	1 08814,19204	9,59578,57185,4566	9,63247,12602	13:12
	16,03893,63549	20,66717	8,14995	17,66386,8969	20,91652	
23	39442,31137,06500	42922,04697	1 08822,34199	9,59596,23572,3535	9,63268,04254	13:48
	16,03773,48734	20,67026	8,15449	17,65536,5143	20,90959	
24	39458,34910,55234	42942,71723	1 08830,49648	9,59613,89108,8678	9,63288,95213	14:24
	16,03653,29033	20,67337	8,15902	17,64686,8228	20,90265	
25	39474,38563,84267	42963,39060	1 08838,65550	9,59631,53795,6906	9,63309,85478	15: 0
	16,03533,04448	20,67646	8,16357	17,63837,8216	20,89573	
26	39490,42096,88715	42984,06706	1 08846,81907	9,59649,17633,5122	9,63330,75051	15:36
	16,03412,74978	20,67957	8,16810	17,62989,5097	20,88882	
27	39506,45509,63693	43004,74663	1 08854,98717	9,59666,80623,0219	9,63351,63933	16:12
	16,03292,40623	20,68267	8,17265	17,62141,8862	20,88190	
28	39522,48802,04316	43025,42930	1 08863,15982	9,59684,42764,9081	9,63372,52123	16:48
	16,03172,01386	20,68578	8,17719	17,61294,9504	20,87501	
29	39538,51974,05702	43046,11508	1 08871,33701	9,59702,04059,8585	9,63393,39624	17:24
	16,03051,57263	20,68888	8,18174	17,60448,7011	20,86811	
30	39554,55025,62965	43066,80396	1 08879,51875	9,59719,64508,5596	9,63414,26435	18: 0
	16,02931,08258	20,69200	8,18629	17,59603,1378	20,86122	
31	39570,57956,71223	43087,49596	1 08887,70504	9,59737,24111,6974	9,63435,12557	18:36
	16,02810,54371	20,69511	8,19083	17,58758,2592	20,85434	
32	39586,60767,25594	43108,19107	1 08895,89587	9,59754,82869,9566	9,63455,97991	19:12
	16,02689,95600	20,69822	8,19538	17,57914,0648	20,84747	
33	39602,63457,21194	43128,88929	1 08904,09125	9,59772,40784,0214	9,63476,82738	19:48
	16,02569,31948	20,70134	8,19994	17,57070,5534	20,84060	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
100	92050,48534,52440	2 35585,23658	2 55930,46652	9,96402,60827,0647	10,37214,80710	60: 0
	6,82094,66566	114,27278	105,18475	3,21824,4034	21,07096	
99	92043,66439,85874	2 35470,96380	2 55825,28177	9,96399,39002,6613	10,37193,73614	59:24
	6,82375,04669	114,17890	105,09055	3,21980,5567	21,06387	
98	92036,84064,81205	2 35356,78490	2 55720,19122	9,96396,17022,1046	10,37172,67227	58:48
	6,82655,40695	114,08513	104,99646	3,22136,7333	21,05678	
97	92030,01409,40510	2 35242,69977	2 55615,19476	9,96392,94885,3713	10,37151,61549	58:12
	6,82935,74640	113,99149	104,90249	3,22292,9329	21,04969	
96	92023,18473,65870	2 35128,70828	2 55510,29227	9,96389,72592,4384	10,37130,56580	57:36
	6,83216,06505	113,89797	104,80865	3,22449,1557	21,04262	
95	92016,35257,59365	2 35014,81031	2 55405,48362	9,96386,50143,2827	10,37109,52318	57: 0
	6,83496,36288	113,80457	104,71493	3,22605,4018	21,03556	
94	92009,51761,23077	2 34901,00574	2 55300,76869	9,96383,27537,8809	10,37088,48762	56:24
	6,83776,63991	113,71130	104,62132	3,22761,6710	21,02849	
93	92002,67984,59086	2 34787,29444	2 55196,14737	9,96380,04776,2099	10,37067,45913	55:48
	6,84056,89609	113,61814	104,52785	3,22917,9635	21,02144	
92	91995,83927,69477	2 34673,67630	2 55091,61952	9,96376,81858,2464	10,37046,43769	55:12
	6,84337,13144	113,52510	104,43449	3,23074,2792	21,01440	
91	91988,99590,56333	2 34560,15120	2 54987,18503	9,96373,58783,9672	10,37025,42329	54:36
	6,84617,34595	113,43219	104,34125	3,23230,6182	21,00736	
90	91982,14973,21738	2 34446,71901	2 54882,84378	9,96370,35553,3490	10,37004,41593	54: 0
	6,84897,53960	113,33940	104,24814	3,23386,9805	21,00032	
89	91975,30075,67778	2 34333,37961	2 54778,59564	9,96367,12166,3685	10,36983,41561	53:24
	6,85177,71239	113,24673	104,15514	3,23543,3661	20,99331	
88	91968,44897,96539	2 34220,13288	2 54674,44050	9,96363,88623,0024	10,36962,42230	52:48
	6,85457,86430	113,15418	104,06226	3,23699,7748	20,98628	
87	91961,59440,10109	2 34106,97870	2 54570,37824	9,96360,64923,2276	10,36941,43602	52:12
	6,85737,99534	113,06175	103,96951	3,23856,2071	20,97928	
86	91954,73702,10575	2 33993,91695	2 54466,40873	9,96357,41067,0205	10,36920,45674	51:36
	6,86018,10549	112,96943	103,87688	3,24012,6625	20,97228	
85	91947,87684,00026	2 33880,94752	2 54362,53185	9,96354,17054,3580	10,36899,48446	51: 0
	6,86298,19473	112,87725	103,78436	3,24169,1414	20,96528	
84	91941,01385,80553	2 33768,07027	2 54258,74749	9,96350,92885,2166	10,36878,51918	50:24
	6,86578,26308	112,78518	103,69196	3,24325,6437	20,95829	
83	91934,14807,54245	2 33655,28509	2 54155,05553	9,96347,68559,5729	10,36857,56089	49:48
	6,86858,31051	112,69322	103,59969	3,24482,1691	20,95132	
82	91927,27949,23194	2 33542,59187	2 54051,45584	9,96344,44077,4038	10,36836,60957	49:12
	6,87138,33701	112,60139	103,50753	3,24638,7182	20,94434	
81	91920,40810,89493	2 33429,99048	2 53947,94831	9,96341,19438,6856	10,36815,66523	48:36
	6,87418,34259	112,50968	103,41549	3,24795,2906	20,93737	
80	91913,53392,55234	2 33317,48080	2 53844,53282	9,96337,94643,3950	10,36794,72786	48: 0
	6,87698,32722	112,41809	103,32357	3,24951,8863	20,93042	
79	91906,65694,22512	2 33205,06271	2 53741,20925	9,96334,69691,5087	10,36773,79744	47:24
	6,87978,29091	112,32661	103,23177	3,25108,5056	20,92346	
78	91899,77715,93421	2 33092,73610	2 53637,97748	9,96331,44583,0031	10,36752,87398	46:48
	6,88258,23363	112,23525	103,14008	3,25265,1483	20,91652	
77	91892,89457,70058	2 32980,50085	2 53534,83740	9,96328,19317,8548	10,36731,95746	46:12
	6,88538,15541	112,14402	103,04852	3,25421,8145	20,90959	
76	91886,00919,54517	2 32868,35683	2 53431,78888	9,96324,93896,0403	10,36711,04787	45:36
	6,88818,05619	112,05289	102,95708	3,25578,5040	20,90265	
75	91879,12101,48898	2 32756,30394	2 53328,83180	9,96321,68317,5363	10,36690,14522	45: 0
	6,89097,93600	111,96189	102,86574	3,25735,2172	20,89573	
74	91872,23003,55298	2 32644,34205	2 53225,96606	9,96318,42582,3191	10,36669,24949	44:24
	6,89377,79481	111,87101	102,77453	3,25891,9539	20,88882	
73	91865,33625,75817	2 32532,47104	2 53123,19153	9,96315,16690,3652	10,36648,36067	43:48
	6,89657,63263	111,78023	102,68344	3,26048,7140	20,88190	
72	91858,43968,12554	2 32420,69081	2 53020,50809	9,96311,90641,6512	10,36627,47877	43:12
	6,89937,44944	111,68959	102,59246	3,26205,4977	20,87501	
71	91851,54030,67610	2 32309,00122	2 52917,91563	9,96308,64436,1535	10,36606,60376	42:36
	6,90217,24523	111,59905	102,50160	3,26362,3050	20,86811	
70	91844,63813,43087	2 32197,40217	2 52815,41403	9,96305,38073,8485	10,36585,73565	42: 0
	6,90497,01999	111,50864	102,41085	3,26519,1358	20,86122	
69	91837,73316,41088	2 32085,89353	2 52713,00318	9,96302,11554,7127	10,36564,87443	41:24
	6,90776,77373	111,41833	102,32023	3,26675,9902	20,85434	
68	91830,82539,63715	2 31974,47520	2 52610,68295	9,96298,84878,7225	10,36544,02009	40:48
	6,91056,50642	111,32816	102,22971	3,26832,8683	20,84747	
67	91823,91483,13073	2 31863,14704	2 52508,45324	9,96295,58045,8542	10,36523,17262	40:12
	6,91336,21806	111,23808	102,13932	3,26989,7698	20,84060	

GRAD. 66.

23. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	39602,63457,21194	43128,88929	1 08904,09125	9,59772,40784,0214	9,63476,82738	19:48
	16,02569,31948	20,70134	8,19994	17,57070,5534	20,84060	
34	39618,66026,53142	43149,59063	1 08912,29119	9,59789,97854,5748	9,63497,66798	20:24
	16,02448,63414	20,70446	8,20449	17,56227,7243	20,83375	
35	39634,68475,16556	43170,29509	1 08920,49568	9,59807,54082,2991	9,63518,50173	21: 0
	16,02327,89998	20,70758	8,20904	17,55385,5767	20,82689	
36	39650,70803,06554	43191,00267	1 08928,70472	9,59825,09467,8758	9,63539,32862	21:36
	16,02207,11702	20,71070	8,21360	17,54544,1094	20,82005	
37	39666,73010,18256	43211,71337	1 08936,91832	9,59842,64011,9852	9,63560,14867	22:12
	16,02086,28526	20,71382	8,21815	17,53703,3219	20,81321	
38	39682,75096,46782	43232,42719	1 08945,13647	9,59860,17715,3071	9,63580,96188	22:48
	16,01965,40468	20,71696	8,22272	17,52863,2130	20,80638	
39	39698,77061,87250	43253,14415	1 08953,35919	9,59877,70578,5201	9,63601,76826	23:24
	16,01844,47531	20,72007	8,22727	17,52023,7821	20,79955	
40	39714,78906,34781	43273,86422	1 08961,58646	9,59895,22602,3022	9,63622,56781	24: 0
	16,01723,49714	20,72321	8,23184	17,51185,0282	20,79274	
41	39730,80629,84495	43294,58743	1 08969,81830	9,59912,73787,3304	9,63643,36055	24:36
	16,01602,47019	20,72635	8,23641	17,50346,9504	20,78593	
42	39746,82232,31514	43315,31378	1 08978,05471	9,59930,24134,2808	9,63664,14648	25:12
	16,01481,39444	20,72947	8,24096	17,49509,5479	20,77912	
43	39762,83713,70958	43336,04325	1 08986,29567	9,59947,73643,8287	9,63684,92560	25:48
	16,01360,26992	20,73261	8,24554	17,48672,8198	20,77233	
44	39778,85073,97950	43356,77586	1 08994,54121	9,59965,22316,6485	9,63705,69793	26:24
	16,01239,09660	20,73575	8,25010	17,47836,7653	20,76554	
45	39794,86313,07610	43377,51161	1 09002,79131	9,59982,70153,4138	9,63726,46347	27: 0
	16,01117,87453	20,73889	8,25467	17,47001,3834	20,75876	
46	39810,87430,95063	43398,25050	1 09011,04598	9,60000,17154,7972	9,63747,22223	27:36
	16,00996,60366	20,74203	8,25925	17,46166,6732	20,75198	
47	39826,88427,55429	43418,99253	1 09019,30523	9,60017,63321,4704	9,63767,97421	28:12
	16,00875,28404	20,74518	8,26382	17,45332,6342	20,74522	
48	39842,89302,83833	43439,73771	1 09027,56905	9,60035,08654,1046	9,63788,71943	28:48
	16,00753,91564	20,74832	8,26839	17,44499,2652	20,73845	
49	39858,90056,75397	43460,48603	1 09035,83744	9,60052,53153,3698	9,63809,45788	29:24
	16,00632,49849	20,75147	8,27297	17,43666,5653	20,73170	
50	39874,90689,25246	43481,23750	1 09044,11041	9,60069,96819,9351	9,63830,18958	30: 0
	16,00511,03258	20,75461	8,27754	17,42834,5340	20,72495	
51	39890,91200,28504	43501,99211	1 09052,38795	9,60087,39654,4691	9,63850,91453	30:36
	16,00389,51791	20,75778	8,28213	17,42003,1701	20,71822	
52	39906,91589,80295	43522,74989	1 09060,67008	9,60104,81657,6392	9,63871,63275	31:12
	16,00267,95450	20,76092	8,28670	17,41172,4728	20,71147	
53	39922,91857,75745	43543,51081	1 09068,95678	9,60122,22830,1120	9,63892,34422	31:48
	16,00146,34233	20,76408	8,29129	17,40342,4415	20,70476	
54	39938,92004,09978	43564,27489	1 09077,24807	9,60139,63172,5535	9,63913,04898	32:24
	16,00024,68142	20,76724	8,29587	17,39513,0751	20,69803	
55	39954,92028,78120	43585,04213	1 09085,54394	9,60157,02685,6286	9,63933,74701	33: 0
	15,99902,97178	20,77040	8,30046	17,38684,3727	20,69132	
56	39970,91931,75298	43605,81253	1 09093,84440	9,60174,41370,0013	9,63954,43833	33:36
	15,99781,21339	20,77356	8,30504	17,37856,3337	20,68461	
57	39986,91712,96637	43626,58609	1 09102,14944	9,60191,79226,3350	9,63975,12294	34:12
	15,99659,40628	20,77672	8,30964	17,37028,9571	20,67792	
58	40002,91372,37265	43647,36281	1 09110,45908	9,60209,16255,2921	9,63995,80086	34:48
	15,99537,55043	20,77989	8,31422	17,36202,2421	20,67122	
59	40018,90909,92308	43668,14270	1 09118,77330	9,60226,52457,5342	9,64016,47208	35:24
	15,99415,64587	20,78305	8,31882	17,35376,1878	20,66454	
60	40034,90325,56895	43688,92575	1 09127,09212	9,60243,87833,7220	9,64037,13662	36: 0
	15,99293,69258	20,78623	8,32340	17,34550,7934	20,65786	
61	40050,89619,26153	43709,71198	1 09135,41552	9,60261,22384,5154	9,64057,79448	36:36
	15,99171,69057	20,78940	8,32801	17,33726,0581	20,65118	
62	40066,88790,95210	43730,50138	1 09143,74353	9,60278,56110,5735	9,64078,44566	37:12
	15,99049,63985	20,79257	8,33259	17,32901,9809	20,64453	
63	40082,87840,59195	43751,29395	1 09152,07612	9,60295,89012,5544	9,64099,09019	37:48
	15,98927,54042	20,79575	8,33720	17,32078,5611	20,63786	
64	40098,86768,13237	43772,08970	1 09160,41332	9,60313,21091,1155	9,64119,72805	38:24
	15,98805,39229	20,79892	8,34180	17,31255,7980	20,63121	
65	40114,85573,52466	43792,88862	1 09168,75512	9,60330,52346,9135	9,64140,35926	39: 0
	15,98683,19545	20,80211	8,34640	17,30433,6904	20,62457	
66	40130,84256,72011	43813,69073	1 09177,10152	9,60347,82780,6039	9,64160,98383	39:36
	15,98560,94991	20,80529	8,35099	17,29612,2379	20,61793	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	91823,91483,13073	2 31863,14704	2 52508,45324	9,96295,58045,8542	10,36523,17262	40:12
	6,91336,21806	111,23808	102,13932	3,26989,7698	20,84060	
66	91817,00146,91267	2 31751,90896	2 52406,31392	9,96292,31056,0844	10,36502,33202	39:36
	6,91615,90864	111,14813	102,04904	3,27146,6951	20,83375	
65	91810,08531,00403	2 31640,76083	2 52304,26488	9,96289,03909,3893	10,36481,49827	39: 0
	6,91895,57815	111,05830	101,95888	3,27303,6440	20,82689	
64	91803,16635,42588	2 31529,70253	2 52202,30600	9,96285,76605,7453	10,36460,67138	38:24
	6,92175,22659	110,96858	101,86882	3,27460,6166	20,82005	
63	91796,24460,19929	2 31418,73395	2 52100,43718	9,96282,49145,1287	10,36439,85133	37:48
	6,92454,85393	110,87897	101,77890	3,27617,6128	20,81321	
62	91789,32005,34536	2 31307,85498	2 51998,65828	9,96279,21527,5159	10,36419,03812	37:12
	6,92734,46020	110,78948	101,68908	3,27774,6327	20,80638	
61	91782,39270,88516	2 31197,06550	2 51896,96920	9,96275,93752,8832	10,36398,23174	36:36
	6,93014,04535	110,70011	101,59937	3,27931,6763	20,79955	
60	91775,46256,83981	2 31086,36539	2 51795,36983	9,96272,65821,2069	10,36377,43219	36: 0
	6,93293,60939	110,61085	101,50978	3,28088,7437	20,79274	
59	91768,52963,23042	2 30975,75454	2 51693,86005	9,96269,37732,4632	10,36356,63945	35:24
	6,93573,15233	110,52171	101,42031	3,28245,8347	20,78593	
58	91761,59390,07809	2 30865,23283	2 51592,43974	9,96266,09486,6285	10,36335,85352	34:48
	6,93852,67412	110,43267	101,33096	3,28402,9496	20,77912	
57	91754,65537,40397	2 30754,80016	2 51491,10878	9,96262,81083,6789	10,36315,07440	34:12
	6,94132,17478	110,34376	101,24170	3,28560,0881	20,77233	
56	91747,71405,22919	2 30644,45640	2 51389,86708	9,96259,52523,5908	10,36294,30207	33:36
	6,94411,65431	110,25495	101,15258	3,28717,2505	20,76554	
55	91740,76993,57488	2 30534,20145	2 51288,71450	9,96256,23806,3403	10,36273,53653	33: 0
	6,94691,11267	110,16627	101,06355	3,28874,4367	20,75876	
54	91733,82302,46221	2 30424,03518	2 51187,65095	9,96252,94931,9036	10,36252,77777	32:24
	6,94970,54987	110,07769	100,97465	3,29031,6466	20,75198	
53	91726,87331,91234	2 30313,95749	2 51086,67630	9,96249,65900,2570	10,36232,02579	31:48
	6,95249,96591	109,98923	100,88586	3,29188,8804	20,74522	
52	91719,92081,94643	2 30203,96826	2 50985,79044	9,96246,36711,3766	10,36211,28057	31:12
	6,95529,36076	109,90089	100,79719	3,29346,1380	20,73845	
51	91712,96552,58567	2 30094,06737	2 50884,99325	9,96243,07365,2386	10,36190,54212	30:36
	6,95808,73443	109,81265	100,70861	3,29503,4195	20,73170	
50	91706,00743,85124	2 29984,25472	2 50784,28464	9,96239,77861,8191	10,36169,81042	30: 0
	6,96088,08690	109,72452	100,62017	3,29660,7249	20,72495	
49	91699,04655,76434	2 29874,53020	2 50683,66447	9,96236,48201,0942	10,36149,08547	29:24
	6,96367,41818	109,63652	100,53182	3,29818,0541	20,71822	
48	91692,08288,34616	2 29764,89368	2 50583,13265	9,96233,18383,0401	10,36128,36725	28:48
	6,96646,72823	109,54862	100,44360	3,29975,4072	20,71147	
47	91685,11641,61793	2 29655,34506	2 50482,68905	9,96229,88407,6329	10,36107,65578	28:12
	6,96926,01706	109,46084	100,35548	3,30132,7842	20,70476	
46	91678,14715,60087	2 29545,88422	2 50382,33357	9,96226,58274,8487	10,36086,95102	27:36
	6,97205,28467	109,37317	100,26748	3,30290,1852	20,69803	
45	91671,17510,31620	2 29436,51105	2 50282,06609	9,96223,27984,6635	10,36066,25299	27: 0
	6,97484,53104	109,28560	100,17959	3,30447,6101	20,69132	
44	91664,20025,78516	2 29327,22545	2 50181,88650	9,96219,97537,0534	10,36045,56167	26:24
	6,97763,75616	109,19816	100,09181	3,30605,0590	20,68461	
43	91657,22262,02900	2 29218,02729	2 50081,79469	9,96216,66931,9944	10,36024,87706	25:48
	6,98042,96002	109,11082	100,00414	3,30762,5318	20,67792	
42	91650,24219,06898	2 29108,91647	2 49981,79055	9,96213,36169,4626	10,36004,19914	25:12
	6,98322,14263	109,02359	99,91658	3,30920,0287	20,67122	
41	91643,25896,92635	2 28999,89288	2 49881,87397	9,96210,05249,4339	10,35983,52792	24:36
	6,98601,30395	108,93648	99,82913	3,31077,5495	20,66454	
40	91636,27295,62240	2 28890,95640	2 49782,04484	9,96206,74171,8844	10,35962,86338	24: 0
	6,98880,44401	108,84948	99,74180	3,31235,0943	20,65786	
39	91629,28415,17839	2 28782,10692	2 49682,30304	9,96203,42936,7901	10,35942,20552	23:24
	6,99159,56277	108,76258	99,65458	3,31392,6632	20,65118	
38	91622,29255,61562	2 28673,34434	2 49582,64846	9,96200,11544,1269	10,35921,55434	22:48
	6,99438,66023	108,67580	99,56746	3,31550,2562	20,64453	
37	91615,29816,95539	2 28564,66854	2 49483,08100	9,96196,79993,8707	10,35900,90981	22:12
	6,99717,73638	108,58913	99,48046	3,31707,8732	20,63786	
36	91608,30099,21901	2 28456,07941	2 49383,60054	9,96193,48285,9975	10,35880,27195	21:36
	6,99996,79123	108,50257	99,39356	3,31865,5142	20,63121	
35	91601,30102,42778	2 28347,57684	2 49284,20698	9,96190,16420,4833	10,35859,64074	21: 0
	7,00275,82475	108,41612	99,30678	3,32023,1794	20,62457	
34	91594,29826,60303	2 28239,16072	2 49184,90020	9,96186,84397,3039	10,35839,01617	20:24
	7,00554,83693	108,32977	99,22011	3,32180,8687	20,61793	

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23. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	40146,82817,67002	43834,49602	1 09185,45251	9,60365,12392,8418	9,64181,60176	40:12
	15,98438,65568	20,80847	8,35561	17,28791,4392	20,61130	
68	40162,81256,32570	43855,30449	1 09193,80812	9,60382,41184,2810	9,64202,21306	40:48
	15,98316,31276	20,81165	8,36021	17,27971,2938	20,60468	
69	40178,79572,63846	43876,11614	1 09202,16833	9,60399,69155,5748	9,64222,81774	41:24
	15,98193,92114	20,81485	8,36482	17,27151,8008	20,59806	
70	40194,77766,55960	43896,93099	1 09210,53315	9,60416,96307,3756	9,64243,41580	42: 0
	15,98071,48085	20,81803	8,36942	17,26332,9594	20,59145	
71	40210,75838,04045	43917,74902	1 09218,90257	9,60434,22640,3350	9,64264,00725	42:36
	15,97948,99188	20,82122	8,37404	17,25514,7686	20,58484	
72	40226,73787,03233	43938,57024	1 09227,27661	9,60451,48155,1036	9,64284,59209	43:12
	15,97826,45423	20,82442	8,37865	17,24697,2278	20,57825	
73	40242,71613,48656	43959,39466	1 09235,65526	9,60468,72852,3314	9,64305,17034	43:48
	15,97703,86790	20,82762	8,38326	17,23880,3361	20,57166	
74	40258,69317,35446	43980,22228	1 09244,03852	9,60485,96732,6675	9,64325,74200	44:24
	15,97581,23291	20,83081	8,38787	17,23064,0925	20,56507	
75	40274,66898,58737	44001,05309	1 09252,42639	9,60503,19796,7600	9,64346,30707	45: 0
	15,97458,54926	20,83401	8,39250	17,22248,4965	20,55850	
76	40290,64357,13663	44021,88710	1 09260,81889	9,60520,42045,2565	9,64366,86557	45:36
	15,97335,81693	20,83721	8,39711	17,21433,5471	20,55192	
77	40306,61692,95356	44042,72431	1 09269,21600	9,60537,63478,8036	9,64387,41749	46:12
	15,97213,03596	20,84042	8,40173	17,20619,2433	20,54537	
78	40322,58905,98952	44063,56473	1 09277,61773	9,60554,84098,0469	9,64407,96286	46:48
	15,97090,20633	20,84363	8,40635	17,19805,5847	20,53880	
79	40338,55996,19585	44084,40836	1 09286,02408	9,60572,03903,6316	9,64428,50166	47:24
	15,96967,32805	20,84683	8,41098	17,18992,5702	20,53226	
80	40354,52963,52390	44105,25519	1 09294,43506	9,60589,22896,2018	9,64449,03392	48: 0
	15,96844,40112	20,85004	8,41560	17,18180,1990	20,52571	
81	40370,49807,92502	44126,10523	1 09302,85066	9,60606,41076,4008	9,64469,55963	48:36
	15,96721,42556	20,85325	8,42023	17,17368,4703	20,51918	
82	40386,46529,35058	44146,95848	1 09311,27089	9,60623,58444,8711	9,64490,07881	49:12
	15,96598,40134	20,85646	8,42485	17,16557,3835	20,51264	
83	40402,43127,75192	44167,81494	1 09319,69574	9,60640,75002,2546	9,64510,59145	49:48
	15,96475,32850	20,85969	8,42949	17,15746,9374	20,50612	
84	40418,39603,08042	44188,67463	1 09328,12523	9,60657,90749,1920	9,64531,09757	50:24
	15,96352,20703	20,86290	8,43411	17,14937,1316	20,49961	
85	40434,35955,28745	44209,53753	1 09336,55934	9,60675,05686,3236	9,64551,59718	51: 0
	15,96229,03692	20,86612	8,43875	17,14127,9649	20,49309	
86	40450,32184,32437	44230,40365	1 09344,99809	9,60692,19814,2885	9,64572,09027	51:36
	15,96105,81820	20,86934	8,44338	17,13319,4369	20,48660	
87	40466,28290,14257	44251,27299	1 09353,44147	9,60709,33133,7254	9,64592,57687	52:12
	15,95982,55085	20,87256	8,44802	17,12511,5464	20,48009	
88	40482,24272,69342	44272,14555	1 09361,88949	9,60726,45645,2718	9,64613,05696	52:48
	15,95859,23489	20,87579	8,45265	17,11704,2929	20,47361	
89	40498,20131,92831	44293,02134	1 09370,34214	9,60743,57349,5647	9,64633,53057	53:24
	15,95735,87032	20,87902	8,45729	17,10897,6755	20,46712	
90	40514,15867,79863	44313,90036	1 09378,79943	9,60760,68247,2402	9,64653,99769	54: 0
	15,95612,45712	20,88225	8,46194	17,10091,6933	20,46064	
91	40530,11480,25575	44334,78261	1 09387,26137	9,60777,78338,9335	9,64674,45833	54:36
	15,95488,99534	20,88548	8,46657	17,09286,3456	20,45417	
92	40546,06969,25109	44355,66809	1 09395,72794	9,60794,87625,2791	9,64694,91250	55:12
	15,95365,48495	20,88872	8,47122	17,08481,6316	20,44771	
93	40562,02334,73604	44376,55681	1 09404,19916	9,60811,96106,9107	9,64715,36021	55:48
	15,95241,92596	20,89195	8,47587	17,07677,5505	20,44126	
94	40577,97576,66200	44397,44876	1 09412,67503	9,60829,03784,4612	9,64735,80147	56:24
	15,95118,31838	20,89519	8,48051	17,06874,1015	20,43480	
95	40593,92694,98038	44418,34395	1 09421,15554	9,60846,10658,5627	9,64756,23627	57: 0
	15,94994,66220	20,89842	8,48516	17,06071,2837	20,42835	
96	40609,87689,64258	44439,24237	1 09429,64070	9,60863,16729,8464	9,64776,66462	57:36
	15,94870,95745	20,90168	8,48981	17,05269,0966	20,42192	
97	40625,82560,60003	44460,14405	1 09438,13051	9,60880,21998,9430	9,64797,08654	58:12
	15,94747,20410	20,90491	8,49446	17,04467,5390	20,41549	
98	40641,77307,80413	44481,04896	1 09446,62497	9,60897,26466,4820	9,64817,50203	58:48
	15,94623,40218	20,90816	8,49911	17,03666,6105	20,40906	
99	40657,71931,20631	44501,95712	1 09455,12408	9,60914,30133,0925	9,64837,91109	59:24
	15,94499,55169	20,91141	8,50377	17,02866,3100	20,40265	
100	40673,66430,75800	44522,86853	1 09463,62785	9,60931,32999,4025	9,64858,31374	60: 0
	15,94375,65262	20,91466	8,50843	17,02066,6369	20,39623	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	91587,29271,76610	2 28130,83095	2 49085,68009	9,96183,52216,4352	10,35818,39824	19:48
	7,00833,82779	108,24355	99,13354	3,32338,5821	20,61130	
32	91580,28437,93831	2 28022,58740	2 48986,54655	9,96180,19877,8531	10,35797,78694	19:12
	7,01112,79728	108,15742	99,04708	3,32496,3196	20,60468	
31	91573,27325,14103	2 27914,42998	2 48887,49947	9,96176,87381,5335	10,35777,18226	18:36
	7,01391,74542	108,07141	98,96074	3,32654,0813	20,59806	
30	91566,25933,39561	2 27806,35857	2 48788,53873	9,96173,54727,4522	10,35756,58420	18: 0
	7,01670,67220	107,98551	98,87450	3,32811,8672	20,59145	
29	91559,24262,72341	2 27698,37306	2 48689,66423	9,96170,21915,5850	10,35735,99275	17:24
	7,01949,57760	107,89971	98,78837	3,32969,6773	20,58484	
28	91552,22313,14581	2 27590,47335	2 48590,87586	9,96166,88945,9077	10,35715,40791	16:48
	7,02228,46162	107,81403	98,70236	3,33127,5115	20,57825	
27	91545,20084,68419	2 27482,65932	2 48492,17350	9,96163,55818,3962	10,35694,82966	16:12
	7,02507,32424	107,72845	98,61644	3,33285,3700	20,57166	
26	91538,17577,35995	2 27374,93087	2 48393,55706	9,96160,22533,0262	10,35674,25800	15:36
	7,02786,16548	107,64298	98,53064	3,33443,2526	20,56507	
25	91531,14791,19447	2 27267,28789	2 48295,02642	9,96156,89089,7736	10,35653,69293	15: 0
	7,03064,98529	107,55762	98,44494	3,33601,1597	20,55850	
24	91524,11726,20918	2 27159,73027	2 48196,58148	9,96153,55488,6139	10,35633,13443	14:24
	7,03343,78370	107,47236	98,35936	3,33759,0908	20,55192	
23	91517,08382,42548	2 27052,25791	2 48098,22212	9,96150,21729,5231	10,35612,58251	13:48
	7,03622,56068	107,38723	98,27387	3,33917,0463	20,54537	
22	91510,04759,86480	2 26944,87068	2 47999,94825	9,96146,87812,4768	10,35592,03714	13:12
	7,03901,31623	107,30218	98,18851	3,34075,0261	20,53880	
21	91503,00858,54857	2 26837,56850	2 47901,75974	9,96143,53737,4507	10,35571,49834	12:36
	7,04180,05032	107,21726	98,10324	3,34233,0301	20,53226	
20	91495,96678,49825	2 26730,35124	2 47803,65650	9,96140,19504,4206	10,35550,96608	12: 0
	7,04458,76298	107,13243	98,01808	3,34391,0586	20,52571	
19	91488,92219,73527	2 26623,21881	2 47705,63842	9,96136,85113,3620	10,35530,44037	11:24
	7,04737,45417	107,04772	97,93303	3,34549,1113	20,51918	
18	91481,87482,28110	2 26516,17109	2 47607,70539	9,96133,50564,2507	10,35509,92119	10:48
	7,05016,12390	106,96311	97,84809	3,34707,1884	20,51264	
17	91474,82466,15720	2 26409,20798	2 47509,85730	9,96130,15857,0623	10,35489,40855	10:12
	7,05294,77215	106,87860	97,76325	3,34865,2899	20,50612	
16	91467,77171,38505	2 26302,32938	2 47412,09405	9,96126,80991,7724	10,35468,90243	9:36
	7,05573,39891	106,79422	97,67852	3,35023,4157	20,49961	
15	91460,71597,98614	2 26195,53516	2 47314,41553	9,96123,45968,3567	10,35448,40282	9: 0
	7,05852,00419	106,70992	97,59390	3,35181,5659	20,49309	
14	91453,65745,98195	2 26088,82524	2 47216,82163	9,96120,10786,7908	10,35427,90973	8:24
	7,06130,58796	106,62575	97,50938	3,35339,7406	20,48660	
13	91446,59615,39399	2 25982,19949	2 47119,31225	9,96116,75447,0502	10,35407,42313	7:48
	7,06409,15022	106,54166	97,42496	3,35497,9397	20,48009	
12	91439,53206,24377	2 25875,65783	2 47021,88729	9,96113,39949,1105	10,35386,94304	7:12
	7,06687,69096	106,45770	97,34066	3,35656,1632	20,47361	
11	91432,46518,55281	2 25769,20013	2 46924,54663	9,96110,04292,9473	10,35366,46943	6:36
	7,06966,21017	106,37383	97,25646	3,35814,4112	20,46712	
10	91425,39552,34264	2 25662,82630	2 46827,29017	9,96106,68478,5361	10,35346,00231	6: 0
	7,07244,70786	106,29008	97,17236	3,35972,6836	20,46064	
9	91418,32307,63478	2 25556,53622	2 46730,11781	9,96103,32505,8525	10,35325,54167	5:24
	7,07523,18399	106,20642	97,08837	3,36130,9806	20,45417	
8	91411,24784,45079	2 25450,32980	2 46633,02944	9,96099,96374,8719	10,35305,08750	4:48
	7,07801,63858	106,12287	97,00449	3,36289,3021	20,44771	
7	91404,16982,81221	2 25344,20693	2 46536,02495	9,96096,60085,5698	10,35284,63979	4:12
	7,08080,07160	106,03942	96,92071	3,36447,6480	20,44126	
6	91397,08902,74061	2 25238,16751	2 46439,10424	9,96093,23637,9218	10,35264,19853	3:36
	7,08358,48305	105,95609	96,83702	3,36606,0185	20,43480	
5	91390,00544,25756	2 25132,21142	2 46342,26722	9,96089,87031,9033	10,35243,76373	3: 0
	7,08636,87293	105,87286	96,75346	3,36764,4136	20,42835	
4	91382,91907,38463	2 25026,33856	2 46245,51376	9,96086,50267,4897	10,35223,33538	2:24
	7,08915,24122	105,78973	96,66999	3,36922,8333	20,42192	
3	91375,82992,14341	2 24920,54883	2 46148,84377	9,96083,13344,6564	10,35202,91346	1:48
	7,09193,58791	105,70670	96,58663	3,37081,2774	20,41549	
2	91368,73798,55550	2 24814,84213	2 46052,25714	9,96079,76263,3790	10,35182,49797	1:12
	7,09471,91301	105,62378	96,50337	3,37239,7463	20,40906	
1	91361,64326,64249	2 24709,21835	2 45955,75377	9,96076,39023,6327	10,35162,08891	0:36
	7,09750,21648	105,54096	96,42021	3,37398,2397	20,40265	
0	91354,54576,42601	2 24603,67739	2 45859,33356	9,96073,01625,3930	10,35141,68626	0: 0
	7,10028,49834	105,45825	96,33716	3,37556,7577	20,39623	

GRAD. 66.

24. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
0	40673,66430,75800	44522,86853	1 09463,62785	9,60931,32999,4025	9,64858,31374	0: 0
	15,94375,65262	20,91466	8,50843	17,02066,6369	20,39623	
1	40689,60806,41062	44543,78319	1 09472,13628	9,60948,35066,0394	9,64878,70997	0:36
	15,94251,70499	20,91791	8,51308	17,01267,5904	20,38983	
2	40705,55058,11561	44564,70110	1 09480,64936	9,60965,36333,6298	9,64899,09980	1:12
	15,94127,70879	20,92117	8,51774	17,00469,1697	20,38343	
3	40721,49185,82440	44585,62227	1 09489,16710	9,60982,36802,7995	9,64919,48323	1:48
	15,94003,66404	20,92442	8,52241	16,99671,3739	20,37704	
4	40737,43189,48844	44606,54669	1 09497,68951	9,60999,36474,1734	9,64939,86027	2:24
	15,93879,57072	20,92768	8,52707	16,98874,2024	20,37065	
5	40753,37069,05916	44627,47437	1 09506,21658	9,61016,35348,3758	9,64960,23092	3: 0
	15,93755,42885	20,93094	8,53173	16,98077,6542	20,36428	
6	40769,30824,48801	44648,40531	1 09514,74831	9,61033,33426,0300	9,64980,59520	3:36
	15,93631,23844	20,93420	8,53640	16,97281,7288	20,35790	
7	40785,24455,72645	44669,33951	1 09523,28471	9,61050,30707,7588	9,65000,95310	4:12
	15,93506,99948	20,93747	8,54106	16,96486,4252	20,35153	
8	40801,17962,72593	44690,27698	1 09531,82577	9,61067,27194,1840	9,65021,30463	4:48
	15,93382,71198	20,94074	8,54574	16,95691,7427	20,34518	
9	40817,11345,43791	44711,21772	1 09540,37151	9,61084,22885,9267	9,65041,64981	5:24
	15,93258,37594	20,94400	8,55040	16,94897,6805	20,33882	
10	40833,04603,81385	44732,16172	1 09548,92191	9,61101,17783,6072	9,65061,98863	6: 0
	15,93133,99137	20,94727	8,55508	16,94104,2380	20,33248	
11	40848,97737,80522	44753,10899	1 09557,47699	9,61118,11887,8452	9,65082,32111	6:36
	15,93009,55827	20,95055	8,55975	16,93311,4140	20,32613	
12	40864,90747,36349	44774,05954	1 09566,03674	9,61135,05199,2592	9,65102,64724	7:12
	15,92885,07664	20,95382	8,56443	16,92519,2083	20,31980	
13	40880,83632,44013	44795,01336	1 09574,60117	9,61151,97718,4675	9,65122,96704	7:48
	15,92760,54650	20,95709	8,56911	16,91727,6196	20,31348	
14	40896,76392,98663	44815,97045	1 09583,17028	9,61168,89446,0871	9,65143,28052	8:24
	15,92635,96783	20,96038	8,57378	16,90936,6475	20,30715	
15	40912,69028,95446	44836,93083	1 09591,74406	9,61185,80382,7346	9,65163,58767	9: 0
	15,92511,34065	20,96366	8,57847	16,90146,2910	20,30084	
16	40928,61540,29511	44857,89449	1 09600,32253	9,61202,70529,0256	9,65183,88851	9:36
	15,92386,66495	20,96694	8,58314	16,89356,5495	20,29453	
17	40944,53926,96006	44878,86143	1 09608,90567	9,61219,59885,5751	9,65204,18304	10:12
	15,92261,94076	20,97022	8,58783	16,88567,4221	20,28822	
18	40960,46188,90082	44899,83165	1 09617,49350	9,61236,48452,9972	9,65224,47126	10:48
	15,92137,16805	20,97351	8,59252	16,87778,9082	20,28194	
19	40976,38326,06887	44920,80516	1 09626,08602	9,61253,36231,9054	9,65244,75320	11:24
	15,92012,34686	20,97680	8,59721	16,86991,0068	20,27564	
20	40992,30338,41573	44941,78196	1 09634,68323	9,61270,23222,9122	9,65265,02884	12: 0
	15,91887,47715	20,98009	8,60189	16,86203,7173	20,26936	
21	41008,22225,89288	44962,76205	1 09643,28512	9,61287,09426,6295	9,65285,29820	12:36
	15,91762,55897	20,98339	8,60658	16,85417,0391	20,26308	
22	41024,13988,45185	44983,74544	1 09651,89170	9,61303,94843,6686	9,65305,56128	13:12
	15,91637,59230	20,98668	8,61128	16,84630,9710	20,25682	
23	41040,05626,04415	45004,73212	1 09660,50298	9,61320,79474,6396	9,65325,81810	13:48
	15,91512,57713	20,98997	8,61596	16,83845,5126	20,25055	
24	41055,97138,62128	45025,72209	1 09669,11894	9,61337,63320,1522	9,65346,06865	14:24
	15,91387,51349	20,99328	8,62067	16,83060,6631	20,24429	
25	41071,88526,13477	45046,71537	1 09677,73961	9,61354,46380,8153	9,65366,31294	15: 0
	15,91262,40138	20,99658	8,62536	16,82276,4216	20,23804	
26	41087,79788,53615	45067,71195	1 09686,36497	9,61371,28657,2369	9,65386,55098	15:36
	15,91137,24078	20,99988	8,63006	16,81492,7874	20,23180	
27	41103,70925,77693	45088,71183	1 09694,99503	9,61388,10150,0243	9,65406,78278	16:12
	15,91012,03173	21,00318	8,63476	16,80709,7599	20,22556	
28	41119,61937,80866	45109,71501	1 09703,62979	9,61404,90859,7842	9,65427,00834	16:48
	15,90886,77421	21,00650	8,63946	16,79927,3382	20,21933	
29	41135,52824,58287	45130,72151	1 09712,26925	9,61421,70787,1224	9,65447,22767	17:24
	15,90761,46822	21,00980	8,64416	16,79145,5215	20,21310	
30	41151,43586,05109	45151,73131	1 09720,91341	9,61438,49932,6439	9,65467,44077	18: 0
	15,90636,11378	21,01311	8,64887	16,78364,3091	20,20688	
31	41167,34222,16487	45172,74442	1 09729,56228	9,61455,28296,9530	9,65487,64765	18:36
	15,90510,71088	21,01643	8,65358	16,77583,7004	20,20067	
32	41183,24732,87575	45193,76085	1 09738,21586	9,61472,05880,6534	9,65507,84832	19:12
	15,90385,25954	21,01975	8,65828	16,76803,6944	20,19446	
33	41199,15118,13529	45214,78060	1 09746,87414	9,61488,82684,3478	9,65528,04278	19:48
	15,90259,75974	21,02306	8,66300	16,76024,2906	20,18826	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
100	91354,54576,42601	2 24603,67739	2 45859,33356	9,96073,01625,3930	10,35141,68626	60: 0
	7,10028,49834	105,45825	96,33716	3,37556,7577	20,39623	
99	91347,44547,92767	2 24498,21914	2 45762,99640	9,96069,64068,6353	10,35121,29003	59:24
	7,10306,75858	105,37564	96,25422	3,37715,3004	20,38983	
98	91340,34241,16909	2 24392,84350	2 45666,74218	9,96066,26353,3349	10,35100,90020	58:48
	7,10584,99717	105,29313	96,17137	3,37873,8678	20,38343	
97	91333,23656,17192	2 24287,55037	2 45570,57081	9,96062,88479,4671	10,35080,51677	58:12
	7,10863,21411	105,21073	96,08862	3,38032,4598	20,37704	
96	91326,12792,95781	2 24182,33964	2 45474,48219	9,96059,50447,0073	10,35060,13973	57:36
	7,11141,40941	105,12844	96,00599	3,38191,0766	20,37065	
95	91319,01651,54840	2 24077,21120	2 45378,47620	9,96056,12255,9307	10,35039,76908	57: 0
	7,11419,58304	105,04623	95,92345	3,38349,7179	20,36428	
94	91311,90231,96536	2 23972,16497	2 45282,55275	9,96052,73906,2128	10,35019,40480	56:24
	7,11697,73501	104,96414	95,84102	3,38508,3841	20,35790	
93	91304,78534,23035	2 23867,20083	2 45186,71173	9,96049,35397,8287	10,34999,04690	55:48
	7,11975,86528	104,88215	95,75869	3,38667,0750	20,35153	
92	91297,66558,36507	2 23762,31868	2 45090,95304	9,96045,96730,7537	10,34978,69537	55:12
	7,12253,97387	104,80026	95,67646	3,38825,7906	20,34518	
91	91290,54304,39120	2 23657,51842	2 44995,27658	9,96042,57904,9631	10,34958,35019	54:36
	7,12532,06077	104,71847	95,59433	3,38984,5310	20,33882	
90	91283,41772,33043	2 23552,79995	2 44899,68225	9,96039,18920,4321	10,34938,01137	54: 0
	7,12810,12596	104,63679	95,51231	3,39143,2962	20,33248	
89	91276,28962,20447	2 23448,16316	2 44804,16994	9,96035,79777,1359	10,34917,67889	53:24
	7,13088,16944	104,55520	95,43038	3,39302,0862	20,32613	
88	91269,15874,03503	2 23343,60796	2 44708,73956	9,96032,40475,0497	10,34897,35276	52:48
	7,13366,19120	104,47373	95,34857	3,39460,9010	20,31980	
87	91262,02507,84383	2 23239,13423	2 44613,39099	9,96029,01014,1487	10,34877,03296	52:12
	7,13644,19122	104,39234	95,26684	3,39619,7406	20,31348	
86	91254,88863,65261	2 23134,74189	2 44518,12415	9,96025,61394,4081	10,34856,71948	51:36
	7,13922,16950	104,31107	95,18522	3,39778,6050	20,30715	
85	91247,74941,48311	2 23030,43082	2 44422,93893	9,96022,21615,8031	10,34836,41233	51: 0
	7,14200,12605	104,22988	95,10371	3,39937,4944	20,30084	
84	91240,60741,35706	2 22926,20094	2 44327,83522	9,96018,81678,3087	10,34816,11149	50:24
	7,14478,06083	104,14882	95,02229	3,40096,4086	20,29453	
83	91233,46263,29623	2 22822,05212	2 44232,81293	9,96015,41581,9001	10,34795,81696	49:48
	7,14755,97385	104,06783	94,94097	3,40255,3477	20,28822	
82	91226,31507,32238	2 22717,98429	2 44137,87196	9,96012,01326,5524	10,34775,52874	49:12
	7,15033,86509	103,98697	94,85976	3,40414,3117	20,28194	
81	91219,16473,45729	2 22613,99732	2 44043,01220	9,96008,60912,2407	10,34755,24680	48:36
	7,15311,73456	103,90619	94,77864	3,40573,3006	20,27564	
80	91212,01161,72273	2 22510,09113	2 43948,23356	9,96005,20338,9401	10,34734,97116	48: 0
	7,15589,58224	103,82551	94,69763	3,40732,3144	20,26936	
79	91204,85572,14049	2 22406,26562	2 43853,53593	9,96001,79606,6257	10,34714,70180	47:24
	7,15867,40811	103,74495	94,61671	3,40891,3533	20,26308	
78	91197,69704,73238	2 22302,52067	2 43758,91922	9,95998,38715,2724	10,34694,43872	46:48
	7,16145,21218	103,66447	94,53590	3,41050,4171	20,25682	
77	91190,53559,52020	2 22198,85620	2 43664,38332	9,95994,97664,8553	10,34674,18190	46:12
	7,16422,99444	103,58410	94,45519	3,41209,5058	20,25055	
76	91183,37136,52576	2 22095,27210	2 43569,92813	9,95991,56455,3495	10,34653,93135	45:36
	7,16700,75487	103,50382	94,37456	3,41368,6196	20,24429	
75	91176,20435,77089	2 21991,76828	2 43475,55357	9,95988,15086,7299	10,34633,68706	45: 0
	7,16978,49348	103,42365	94,29406	3,41527,7584	20,23804	
74	91169,03457,27741	2 21888,34463	2 43381,25951	9,95984,73558,9715	10,34613,44902	44:24
	7,17256,21023	103,34358	94,21363	3,41686,9222	20,23180	
73	91161,86201,06718	2 21785,00105	2 43287,04588	9,95981,31872,0493	10,34593,21722	43:48
	7,17533,90514	103,26360	94,13332	3,41846,1111	20,22556	
72	91154,68667,16204	2 21681,73745	2 43192,91256	9,95977,90025,9382	10,34572,99166	43:12
	7,17811,57820	103,18372	94,05310	3,42005,3249	20,21933	
71	91147,50855,58384	2 21578,55373	2 43098,85946	9,95974,48020,6133	10,34552,77233	42:36
	7,18089,22939	103,10395	93,97297	3,42164,5640	20,21310	
70	91140,32766,35445	2 21475,44978	2 43004,88649	9,95971,05856,0493	10,34532,55923	42: 0
	7,18366,85870	103,02427	93,89296	3,42323,8281	20,20688	
69	91133,14399,49575	2 21372,42551	2 42910,99353	9,95967,63532,2212	10,34512,35235	41:24
	7,18644,46613	102,94469	93,81303	3,42483,1173	20,20067	
68	91125,95755,02962	2 21269,48082	2 42817,18050	9,95964,21049,1039	10,34492,15168	40:48
	7,18922,05167	102,86521	93,73321	3,42642,4316	20,19446	
67	91118,76832,97795	2 21166,61561	2 42723,44729	9,95960,78406,6723	10,34471,95722	40:12
	7,19199,61531	102,78582	93,65349	3,42801,7711	20,18826	

GRAD. 65.

24. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	41199,15118,13529	45214,78060	1 09746,87414	9,61488,82684,3478	9,65528,04278	19:48
	15,90259,75974	21,02306	8,66300	16,76024,2906	20,18826	
34	41215,05377,89503	45235,80366	1 09755,53714	9,61505,58708,6384	9,65548,23104	20:24
	15,90134,21152	21,02638	8,66770	16,75245,4882	20,18206	
35	41230,95512,10655	45256,83004	1 09764,20484	9,61522,33954,1266	9,65568,41310	21: 0
	15,90008,61484	21,02970	8,67242	16,74467,2861	20,17588	
36	41246,85520,72139	45277,85974	1 09772,87726	9,61539,08421,4127	9,65588,58898	21:36
	15,89882,96974	21,03303	8,67714	16,73689,6842	20,16970	
37	41262,75403,69113	45298,89277	1 09781,55440	9,61555,82111,0969	9,65608,75868	22:12
	15,89757,27620	21,03635	8,68185	16,72912,6812	20,16352	
38	41278,65160,96733	45319,92912	1 09790,23625	9,61572,55023,7781	9,65628,92220	22:48
	15,89631,53424	21,03968	8,68657	16,72136,2767	20,15735	
39	41294,54792,50157	45340,96880	1 09798,92282	9,61589,27160,0548	9,65649,07955	23:24
	15,89505,74385	21,04302	8,69129	16,71360,4697	20,15119	
40	41310,44298,24542	45362,01182	1 09807,61411	9,61605,98520,5245	9,65669,23074	24: 0
	15,89379,90504	21,04634	8,69601	16,70585,2597	20,14503	
41	41326,33678,15046	45383,05816	1 09816,31012	9,61622,69105,7842	9,65689,37577	24:36
	15,89254,01783	21,04968	8,70073	16,69810,6459	20,13888	
42	41342,22932,16829	45404,10784	1 09825,01085	9,61639,38916,4301	9,65709,51465	25:12
	15,89128,08219	21,05301	8,70546	16,69036,6274	20,13274	
43	41358,12060,25048	45425,16085	1 09833,71631	9,61656,07953,0575	9,65729,64739	25:48
	15,89002,09816	21,05636	8,71019	16,68263,2037	20,12659	
44	41374,01062,34864	45446,21721	1 09842,42650	9,61672,76216,2612	9,65749,77398	26:24
	15,88876,06571	21,05969	8,71491	16,67490,3740	20,12047	
45	41389,89938,41435	45467,27690	1 09851,14141	9,61689,43706,6352	9,65769,89445	27: 0
	15,88749,98487	21,06304	8,71964	16,66718,1374	20,11434	
46	41405,78688,39922	45488,33994	1 09859,86105	9,61706,10424,7726	9,65790,00879	27:36
	15,88623,85562	21,06638	8,72438	16,65946,4934	20,10822	
47	41421,67312,25484	45509,40632	1 09868,58543	9,61722,76371,2660	9,65810,11701	28:12
	15,88497,67800	21,06973	8,72910	16,65175,4412	20,10210	
48	41437,55809,93284	45530,47605	1 09877,31453	9,61739,41546,7072	9,65830,21911	28:48
	15,88371,45198	21,07308	8,73385	16,64404,9800	20,09600	
49	41453,44181,38482	45551,54913	1 09886,04838	9,61756,05951,6872	9,65850,31511	29:24
	15,88245,17757	21,07642	8,73857	16,63635,1091	20,08990	
50	41469,32426,56239	45572,62555	1 09894,78695	9,61772,69586,7963	9,65870,40501	30: 0
	15,88118,85479	21,07978	8,74332	16,62865,8278	20,08380	
51	41485,20545,41718	45593,70533	1 09903,53027	9,61789,32452,6241	9,65890,48881	30:36
	15,87992,48362	21,08314	8,74806	16,62097,1354	20,07772	
52	41501,08537,90080	45614,78847	1 09912,27833	9,61805,94549,7595	9,65910,56653	31:12
	15,87866,06409	21,08649	8,75280	16,61329,0311	20,07163	
53	41516,96403,96489	45635,87496	1 09921,03113	9,61822,55878,7906	9,65930,63816	31:48
	15,87739,59619	21,08986	8,75754	16,60561,5144	20,06555	
54	41532,84143,56108	45656,96482	1 09929,78867	9,61839,16440,3050	9,65950,70371	32:24
	15,87613,07991	21,09321	8,76228	16,59794,5842	20,05948	
55	41548,71756,64099	45678,05803	1 09938,55095	9,61855,76234,8892	9,65970,76319	33: 0
	15,87486,51529	21,09658	8,76703	16,59028,2401	20,05342	
56	41564,59243,15628	45699,15461	1 09947,31798	9,61872,35263,1293	9,65990,81661	33:36
	15,87359,90229	21,09994	8,77179	16,58262,4812	20,04736	
57	41580,46603,05857	45720,25455	1 09956,08977	9,61888,93525,6105	9,66010,86397	34:12
	15,87233,24096	21,10331	8,77653	16,57497,3069	20,04131	
58	41596,33836,29953	45741,35786	1 09964,86630	9,61905,51022,9174	9,66030,90528	34:48
	15,87106,53126	21,10669	8,78128	16,56732,7165	20,03526	
59	41612,20942,83079	45762,46455	1 09973,64758	9,61922,07755,6339	9,66050,94054	35:24
	15,86979,77322	21,11005	8,78603	16,55968,7091	20,02922	
60	41628,07922,60401	45783,57460	1 09982,43361	9,61938,63724,3430	9,66070,96976	36: 0
	15,86852,96684	21,11343	8,79079	16,55205,2842	20,02319	
61	41643,94775,57085	45804,68803	1 09991,22440	9,61955,18929,6272	9,66090,99295	36:36
	15,86726,11213	21,11680	8,79555	16,54442,4410	20,01716	
62	41659,81501,68298	45825,80483	1 10000,01995	9,61971,73372,0682	9,66111,01011	37:12
	15,86599,20907	21,12018	8,80030	16,53680,1787	20,01114	
63	41675,68100,89205	45846,92501	1 10008,82025	9,61988,27052,2469	9,66131,02125	37:48
	15,86472,25768	21,12356	8,80506	16,52918,4968	20,00512	
64	41691,54573,14973	45868,04857	1 10017,62531	9,62004,79970,7437	9,66151,02637	38:24
	15,86345,25798	21,12694	8,80983	16,52157,3944	19,99911	
65	41707,40918,40771	45889,17551	1 10026,43514	9,62021,32128,1381	9,66171,02548	39: 0
	15,86218,20994	21,13033	8,81459	16,51396,8709	19,99311	
66	41723,27136,61765	45910,30584	1 10035,24973	9,62037,83525,0090	9,66191,01859	39:36
	15,86091,11359	21,13372	8,81935	16,50636,9255	19,98711	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	91118,76832,97795	2 21166,61561	2 42723,44729	9,95960,78406,6723	10,34471,95722	40:12
	7,19199,61531	102,78582	93,65349	3,42801,7711	20,18826	
66	91111,57633,36264	2 21063,82979	2 42629,79380	9,95957,35604,9012	10,34451,76896	39:36
	7,19477,15704	102,70654	93,57385	3,42961,1357	20,18206	
65	91104,38156,20560	2 20961,12325	2 42536,21995	9,95953,92643,7655	10,34431,58690	39: 0
	7,19754,67686	102,62735	93,49432	3,43120,5255	20,17588	
64	91097,18401,52874	2 20858,49590	2 42442,72563	9,95950,49523,2400	10,34411,41102	38:24
	7,20032,17475	102,54827	93,41489	3,43279,9405	20,16970	
63	91089,98369,35399	2 20755,94763	2 42349,31074	9,95947,06243,2995	10,34391,24132	37:48
	7,20309,65071	102,46927	93,33556	3,43439,3807	20,16352	
62	91082,78059,70328	2 20653,47836	2 42255,97518	9,95943,62803,9188	10,34371,07780	37:12
	7,20587,10472	102,39038	93,25631	3,43598,8461	20,15735	
61	91075,57472,59856	2 20551,08798	2 42162,71887	9,95940,19205,0727	10,34350,92045	36:36
	7,20864,53679	102,31158	93,17717	3,43758,3367	20,15119	
60	91068,36608,06177	2 20448,77640	2 42069,54170	9,95936,75446,7360	10,34330,76926	36: 0
	7,21141,94689	102,23288	93,09813	3,43917,8526	20,14503	
59	91061,15466,11488	2 20346,54352	2 41976,44357	9,95933,31528,8834	10,34310,62423	35:24
	7,21419,33504	102,15428	93,01919	3,44077,3938	20,13888	
58	91053,94046,77984	2 20244,38924	2 41883,42438	9,95929,87451,4896	10,34290,48535	34:48
	7,21696,70119	102,07577	92,94033	3,44236,9602	20,13274	
57	91046,72350,07865	2 20142,31347	2 41790,48405	9,95926,43214,5294	10,34270,35261	34:12
	7,21974,04538	101,99737	92,86157	3,44396,5520	20,12659	
56	91039,50376,03327	2 20040,31610	2 41697,62248	9,95922,98817,9774	10,34250,22602	33:36
	7,22251,36756	101,91905	92,78292	3,44556,1690	20,12047	
55	91032,28124,66571	2 19938,39705	2 41604,83956	9,95919,54261,8084	10,34230,10555	33: 0
	7,22528,66775	101,84083	92,70436	3,44715,8114	20,11434	
54	91025,05595,99796	2 19836,55622	2 41512,13520	9,95916,09545,9970	10,34209,99121	32:24
	7,22805,94592	101,76272	92,62589	3,44875,4792	20,10822	
53	91017,82790,05204	2 19734,79350	2 41419,50931	9,95912,64670,5178	10,34189,88299	31:48
	7,23083,20208	101,68469	92,54752	3,45035,1722	20,10210	
52	91010,59706,84996	2 19633,10881	2 41326,96179	9,95909,19635,3456	10,34169,78089	31:12
	7,23360,43622	101,60676	92,46925	3,45194,8907	20,09600	
51	91003,36346,41374	2 19531,50205	2 41234,49254	9,95905,74440,4549	10,34149,68489	30:36
	7,23637,64831	101,52893	92,39107	3,45354,6345	20,08990	
50	90996,12708,76543	2 19429,97312	2 41142,10147	9,95902,29085,8204	10,34129,59499	30: 0
	7,23914,83836	101,45120	92,31298	3,45514,4038	20,08380	
49	90988,88793,92707	2 19328,52192	2 41049,78849	9,95898,83571,4166	10,34109,51119	29:24
	7,24192,00637	101,37355	92,23500	3,45674,1985	20,07772	
48	90981,64601,92070	2 19227,14837	2 40957,55349	9,95895,37897,2181	10,34089,43347	28:48
	7,24469,15231	101,29601	92,15711	3,45834,0186	20,07163	
47	90974,40132,76839	2 19125,85236	2 40865,39638	9,95891,92063,1995	10,34069,36184	28:12
	7,24746,27618	101,21855	92,07931	3,45993,8642	20,06555	
46	90967,15386,49221	2 19024,63381	2 40773,31707	9,95888,46069,3353	10,34049,29629	27:36
	7,25023,37798	101,14120	92,00160	3,46153,7352	20,05948	
45	90959,90363,11423	2 18923,49261	2 40681,31547	9,95884,99915,6001	10,34029,23681	27: 0
	7,25300,45769	101,06394	91,92400	3,46313,6318	20,05342	
44	90952,65062,65654	2 18822,42867	2 40589,39147	9,95881,53601,9683	10,34009,18339	26:24
	7,25577,51530	100,98677	91,84648	3,46473,5538	20,04736	
43	90945,39485,14124	2 18721,44190	2 40497,54499	9,95878,07128,4145	10,33989,13603	25:48
	7,25854,55082	100,90970	91,76906	3,46633,5014	20,04131	
42	90938,13630,59042	2 18620,53220	2 40405,77593	9,95874,60494,9131	10,33969,09472	25:12
	7,26131,56423	100,83272	91,69174	3,46793,4745	20,03526	
41	90930,87499,02619	2 18519,69948	2 40314,08419	9,95871,13701,4386	10,33949,05946	24:36
	7,26408,55550	100,75584	91,61450	3,46953,4732	20,02922	
40	90923,61090,47069	2 18418,94364	2 40222,46969	9,95867,66747,9654	10,33929,03024	24: 0
	7,26685,52467	100,67904	91,53737	3,47113,4973	20,02319	
39	90916,34404,94602	2 18318,26460	2 40130,93232	9,95864,19634,4681	10,33909,00705	23:24
	7,26962,47169	100,60236	91,46033	3,47273,5472	20,01716	
38	90909,07442,47433	2 18217,66224	2 40039,47199	9,95860,72360,9209	10,33888,98989	22:48
	7,27239,39656	100,52575	91,38337	3,47433,6225	20,01114	
37	90901,80203,07777	2 18117,13649	2 39948,08862	9,95857,24927,2984	10,33868,97875	22:12
	7,27516,29928	100,44924	91,30652	3,47593,7235	20,00512	
36	90894,52686,77849	2 18016,68725	2 39856,78210	9,95853,77333,5749	10,33848,97363	21:36
	7,27793,17985	100,37283	91,22975	3,47753,8502	19,99911	
35	90887,24893,59864	2 17916,31442	2 39765,55235	9,95850,29579,7247	10,33828,97452	21: 0
	7,28070,03824	100,29650	91,15309	3,47914,0025	19,99311	
34	90879,96823,56040	2 17816,01792	2 39674,39926	9,95846,81665,7222	10,33808,98141	20:24
	7,28346,87445	100,22028	91,07650	3,48074,1804	19,98711	

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24. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	41739,13227,73124	45931,43956	1 10044,06908	9,62054,34161,9345	9,66211,00570	40:12
	15,85963,96893	21,13710	8,82412	16,49877,5575	19,98112	
68	41754,99191,70017	45952,57666	1 10052,89320	9,62070,84039,4920	9,66230,98682	40:48
	15,85836,77594	21,14049	8,82889	16,49118,7664	19,97514	
69	41770,85028,47611	45973,71715	1 10061,72209	9,62087,33158,2584	9,66250,96196	41:24
	15,85709,53466	21,14389	8,83366	16,48360,5513	19,96915	
70	41786,70738,01077	45994,86104	1 10070,55575	9,62103,81518,8097	9,66270,93111	42: 0
	15,85582,24507	21,14728	8,83843	16,47602,9114	19,96318	
71	41802,56320,25584	46016,00832	1 10079,39418	9,62120,29121,7211	9,66290,89429	42:36
	15,85454,90718	21,15068	8,84320	16,46845,8464	19,95721	
72	41818,41775,16302	46037,15900	1 10088,23738	9,62136,75967,5675	9,66310,85150	43:12
	15,85327,52099	21,15408	8,84798	16,46089,3551	19,95126	
73	41834,27102,68401	46058,31308	1 10097,08536	9,62153,22056,9226	9,66330,80276	43:48
	15,85200,08652	21,15748	8,85275	16,45333,4371	19,94529	
74	41850,12302,77053	46079,47056	1 10105,93811	9,62169,67390,3597	9,66350,74805	44:24
	15,85072,60375	21,16088	8,85753	16,44578,0917	19,93935	
75	41865,97375,37428	46100,63144	1 10114,79564	9,62186,11968,4514	9,66370,68740	45: 0
	15,84945,07271	21,16429	8,86232	16,43823,3181	19,93340	
76	41881,82320,44699	46121,79573	1 10123,65796	9,62202,55791,7695	9,66390,62080	45:36
	15,84817,49337	21,16770	8,86709	16,43069,1158	19,92747	
77	41897,67137,94036	46142,96343	1 10132,52505	9,62218,98860,8853	9,66410,54827	46:12
	15,84689,86577	21,17110	8,87188	16,42315,4837	19,92153	
78	41913,51827,80613	46164,13453	1 10141,39693	9,62235,41176,3690	9,66430,46980	46:48
	15,84562,18989	21,17452	8,87666	16,41562,4216	19,91561	
79	41929,36389,99602	46185,30905	1 10150,27359	9,62251,82738,7906	9,66450,38541	47:24
	15,84434,46575	21,17793	8,88145	16,40809,9284	19,90968	
80	41945,20824,46177	46206,48698	1 10159,15504	9,62268,23548,7190	9,66470,29509	48: 0
	15,84306,69334	21,18135	8,88624	16,40058,0038	19,90378	
81	41961,05131,15511	46227,66833	1 10168,04128	9,62284,63606,7228	9,66490,19887	48:36
	15,84178,87266	21,18477	8,89103	16,39306,6466	19,89786	
82	41976,89310,02777	46248,85310	1 10176,93231	9,62301,02913,3694	9,66510,09673	49:12
	15,84051,00374	21,18818	8,89582	16,38555,8567	19,89197	
83	41992,73361,03151	46270,04128	1 10185,82813	9,62317,41469,2261	9,66529,98870	49:48
	15,83923,08655	21,19161	8,90061	16,37805,6329	19,88607	
84	42008,57284,11806	46291,23289	1 10194,72874	9,62333,79274,8590	9,66549,87477	50:24
	15,83795,12113	21,19503	8,90541	16,37055,9749	19,88017	
85	42024,41079,23919	46312,42792	1 10203,63415	9,62350,16330,8339	9,66569,75494	51: 0
	15,83667,10745	21,19846	8,91021	16,36306,8817	19,87430	
86	42040,24746,34664	46333,62638	1 10212,54436	9,62366,52637,7156	9,66589,62924	51:36
	15,83539,04553	21,20189	8,91500	16,35558,3529	19,86841	
87	42056,08285,39217	46354,82827	1 10221,45936	9,62382,88196,0685	9,66609,49765	52:12
	15,83410,93538	21,20532	8,91981	16,34810,3876	19,86254	
88	42071,91696,32755	46376,03359	1 10230,37917	9,62399,23006,4561	9,66629,36019	52:48
	15,83282,77699	21,20876	8,92461	16,34062,9852	19,85668	
89	42087,74979,10454	46397,24235	1 10239,30378	9,62415,57069,4413	9,66649,21687	53:24
	15,83154,57037	21,21218	8,92941	16,33316,1450	19,85082	
90	42103,58133,67491	46418,45453	1 10248,23319	9,62431,90385,5863	9,66669,06769	54: 0
	15,83026,31553	21,21563	8,93422	16,32569,8664	19,84496	
91	42119,41159,99044	46439,67016	1 10257,16741	9,62448,22955,4527	9,66688,91265	54:36
	15,82898,01247	21,21906	8,93902	16,31824,1487	19,83911	
92	42135,24058,00291	46460,88922	1 10266,10643	9,62464,54779,6014	9,66708,75176	55:12
	15,82769,66118	21,22251	8,94383	16,31078,9911	19,83327	
93	42151,06827,66409	46482,11173	1 10275,05026	9,62480,85858,5925	9,66728,58503	55:48
	15,82641,26169	21,22595	8,94865	16,30334,3930	19,82743	
94	42166,89468,92578	46503,33768	1 10283,99891	9,62497,16192,9855	9,66748,41246	56:24
	15,82512,81398	21,22939	8,95346	16,29590,3537	19,82160	
95	42182,71981,73976	46524,56707	1 10292,95237	9,62513,45783,3392	9,66768,23406	57: 0
	15,82384,31807	21,23285	8,95827	16,28846,8727	19,81577	
96	42198,54366,05783	46545,79992	1 10301,91064	9,62529,74630,2119	9,66788,04983	57:36
	15,82255,77395	21,23629	8,96308	16,28103,9491	19,80996	
97	42214,36621,83178	46567,03621	1 10310,87372	9,62546,02734,1610	9,66807,85979	58:12
	15,82127,18164	21,23975	8,96791	16,27361,5823	19,80414	
98	42230,18749,01342	46588,27596	1 10319,84163	9,62562,30095,7433	9,66827,66393	58:48
	15,81998,54114	21,24320	8,97272	16,26619,7716	19,79833	
99	42246,00747,55456	46609,51916	1 10328,81435	9,62578,56715,5149	9,66847,46226	59:24
	15,81869,85243	21,24666	8,97755	16,25878,5165	19,79253	
100	42261,82617,40699	46630,76582	1 10337,79190	9,62594,82594,0314	9,66867,25479	60: 0
	15,81741,11556	21,25011	8,98236	16,25137,8161	19,78674	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	90872,68476,68595	2 17715,79764	2 39583,32276	9,95843,33591,5418	10,33788,99430	19:48
	7,28623,68848	100,14414	91,00002	3,48234,3840	19,98112	
32	90865,39852,99747	2 17615,65350	2 39492,32274	9,95839,85357,1578	10,33769,01318	19:12
	7,28900,48031	100,06810	90,92363	3,48394,6134	19,97514	
31	90858,10952,51716	2 17515,58540	2 39401,39911	9,95836,36962,5444	10,33749,03804	18:36
	7,29177,24994	99,99214	90,84733	3,48554,8683	19,96915	
30	90850,81775,26722	2 17415,59326	2 39310,55178	9,95832,88407,6761	10,33729,06889	18: 0
	7,29453,99736	99,91629	90,77113	3,48715,1492	19,96318	
29	90843,52321,26986	2 17315,67697	2 39219,78065	9,95829,39692,5269	10,33709,10571	17:24
	7,29730,72255	99,84053	90,69501	3,48875,4556	19,95721	
28	90836,22590,54731	2 17215,83644	2 39129,08564	9,95825,90817,0713	10,33689,14850	16:48
	7,30007,42552	99,76485	90,61898	3,49035,7879	19,95126	
27	90828,92583,12179	2 17116,07159	2 39038,46666	9,95822,41781,2834	10,33669,19724	16:12
	7,30284,10625	99,68927	90,54306	3,49196,1458	19,94529	
26	90821,62299,01554	2 17016,38232	2 38947,92360	9,95818,92585,1376	10,33649,25195	15:36
	7,30560,76473	99,61378	90,46721	3,49356,5297	19,93935	
25	90814,31738,25081	2 16916,76854	2 38857,45639	9,95815,43228,6079	10,33629,31260	15: 0
	7,30837,40096	99,53839	90,39147	3,49516,9394	19,93340	
24	90807,00900,84985	2 16817,23015	2 38767,06492	9,95811,93711,6685	10,33609,37920	14:24
	7,31114,01493	99,46308	90,31581	3,49677,3747	19,92747	
23	90799,69786,83492	2 16717,76707	2 38676,74911	9,95808,44034,2938	10,33589,45173	13:48
	7,31390,60662	99,38786	90,24025	3,49837,8361	19,92153	
22	90792,38396,22830	2 16618,37921	2 38586,50886	9,95804,94196,4577	10,33569,53020	13:12
	7,31667,17604	99,31275	90,16477	3,49998,3231	19,91561	
21	90785,06729,05226	2 16519,06646	2 38496,34409	9,95801,44198,1346	10,33549,61459	12:36
	7,31943,72317	99,23771	90,08940	3,50158,8362	19,90968	
20	90777,74785,32909	2 16419,82875	2 38406,25469	9,95797,94039,2984	10,33529,70491	12: 0
	7,32220,24801	99,16277	90,01409	3,50319,3750	19,90378	
19	90770,42565,08108	2 16320,66598	2 38316,24060	9,95794,43719,9234	10,33509,80113	11:24
	7,32496,75053	99,08792	89,93890	3,50479,9399	19,89786	
18	90763,10068,33055	2 16221,57806	2 38226,30170	9,95790,93239,9835	10,33489,90327	10:48
	7,32773,23074	99,01316	89,86379	3,50640,5305	19,89197	
17	90755,77295,09981	2 16122,56490	2 38136,43791	9,95787,42599,4530	10,33470,01130	10:12
	7,33049,68864	98,93849	89,78877	3,50801,1472	19,88607	
16	90748,44245,41117	2 16023,62641	2 38046,64914	9,95783,91798,3058	10,33450,12523	9:36
	7,33326,12420	98,86392	89,71384	3,50961,7898	19,88017	
15	90741,10919,28697	2 15924,76249	2 37956,93530	9,95780,40836,5160	10,33430,24506	9: 0
	7,33602,53743	98,78942	89,63900	3,51122,4583	19,87430	
14	90733,77316,74954	2 15825,97307	2 37867,29630	9,95776,89714,0577	10,33410,37076	8:24
	7,33878,92830	98,71503	89,56425	3,51283,1528	19,86841	
13	90726,43437,82124	2 15727,25804	2 37777,73205	9,95773,38430,9049	10,33390,50235	7:48
	7,34155,29683	98,64073	89,48959	3,51443,8734	19,86254	
12	90719,09282,52441	2 15628,61731	2 37688,24246	9,95769,86987,0315	10,33370,63981	7:12
	7,34431,64299	98,56650	89,41502	3,51604,6200	19,85668	
11	90711,74850,88142	2 15530,05081	2 37598,82744	9,95766,35382,4115	10,33350,78313	6:36
	7,34707,96677	98,49238	89,34054	3,51765,3925	19,85082	
10	90704,40142,91465	2 15431,55843	2 37509,48690	9,95762,83617,0190	10,33330,93231	6: 0
	7,34984,26818	98,41834	89,26615	3,51926,1911	19,84496	
9	90697,05158,64647	2 15333,14009	2 37420,22075	9,95759,31690,8279	10,33311,08735	5:24
	7,35260,54720	98,34439	89,19185	3,52087,0158	19,83911	
8	90689,69898,09927	2 15234,79570	2 37331,02890	9,95755,79603,8121	10,33291,24824	4:48
	7,35536,80382	98,27053	89,11763	3,52247,8666	19,83327	
7	90682,34361,29545	2 15136,52517	2 37241,91127	9,95752,27355,9455	10,33271,41497	4:12
	7,35813,03803	98,19676	89,04351	3,52408,7435	19,82743	
6	90674,98548,25742	2 15038,32841	2 37152,86776	9,95748,74947,2020	10,33251,58754	3:36
	7,36089,24983	98,12308	88,96948	3,52569,6464	19,82160	
5	90667,62459,00759	2 14940,20533	2 37063,89828	9,95745,22377,5556	10,33231,76594	3: 0
	7,36365,43921	98,04948	88,89553	3,52730,5755	19,81577	
4	90660,26093,56838	2 14842,15585	2 36975,00275	9,95741,69646,9801	10,33211,95017	2:24
	7,36641,60616	97,97599	88,82167	3,52891,5307	19,80996	
3	90652,89451,96222	2 14744,17986	2 36886,18108	9,95738,16755,4494	10,33192,14021	1:48
	7,36917,75067	97,90257	88,74791	3,53052,5122	19,80414	
2	90645,52534,21155	2 14646,27729	2 36797,43317	9,95734,63702,9372	10,33172,33607	1:12
	7,37193,87272	97,82924	88,67422	3,53213,5197	19,79833	
1	90638,15340,33883	2 14548,44805	2 36708,75895	9,95731,10489,4175	10,33152,53774	0:36
	7,37469,97233	97,75600	88,60063	3,53374,5535	19,79253	
0	90630,77870,36650	2 14450,69205	2 36620,15832	9,95727,57114,8640	10,33132,74521	0: 0
	7,37746,04947	97,68285	88,52713	3,53535,6135	19,78674	

GRAD. 65.

25. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
0	42261,82617,40699	46630,76582	1 10337,79190	9,62594,82594,0314	9,66867,25479	0: 0
	15,81741,11556	21,25011	8,98236	16,25137,8161	19,78674	
1	42277,64358,52255	46652,01593	1 10346,77426	9,62611,07731,8475	9,66887,04153	0:36
	15,81612,33048	21,25358	8,98720	16,24397,6699	19,78094	
2	42293,45970,85303	46673,26951	1 10355,76146	9,62627,32129,5174	9,66906,82247	1:12
	15,81483,49724	21,25704	8,99201	16,23658,0771	19,77516	
3	42309,27454,35027	46694,52655	1 10364,75347	9,62643,55787,5945	9,66926,59763	1:48
	15,81354,61582	21,26050	8,99685	16,22919,0372	19,76938	
4	42325,08808,96609	46715,78705	1 10373,75032	9,62659,78706,6317	9,66946,36701	2:24
	15,81225,68623	21,26397	9,00168	16,22180,5493	19,76361	
5	42340,90034,65232	46737,05102	1 10382,75200	9,62676,00887,1810	9,66966,13062	3: 0
	15,81096,70847	21,26744	9,00650	16,21442,6130	19,75783	
6	42356,71131,36079	46758,31846	1 10391,75850	9,62692,22329,7940	9,66985,88845	3:36
	15,80967,68255	21,27092	9,01134	16,20705,2274	19,75208	
7	42372,52099,04334	46779,58938	1 10400,76984	9,62708,43035,0214	9,67005,64053	4:12
	15,80838,60848	21,27438	9,01618	16,19968,3921	19,74632	
8	42388,32937,65182	46800,86376	1 10409,78602	9,62724,63003,4135	9,67025,38685	4:48
	15,80709,48623	21,27786	9,02101	16,19232,1062	19,74057	
9	42404,13647,13805	46822,14162	1 10418,80703	9,62740,82235,5197	9,67045,12742	5:24
	15,80580,31585	21,28134	9,02585	16,18496,3691	19,73483	
10	42419,94227,45390	46843,42296	1 10427,83288	9,62757,00731,8888	9,67064,86225	6: 0
	15,80451,09732	21,28482	9,03069	16,17761,1803	19,72909	
11	42435,74678,55122	46864,70778	1 10436,86357	9,62773,18493,0691	9,67084,59134	6:36
	15,80321,83064	21,28831	9,03553	16,17026,5388	19,72336	
12	42451,55000,38186	46885,99609	1 10445,89910	9,62789,35519,6079	9,67104,31470	7:12
	15,80192,51582	21,29178	9,04038	16,16292,4444	19,71762	
13	42467,35192,89768	46907,28787	1 10454,93948	9,62805,51812,0523	9,67124,03232	7:48
	15,80063,15288	21,29527	9,04522	16,15558,8961	19,71191	
14	42483,15256,05056	46928,58314	1 10463,98470	9,62821,67370,9484	9,67143,74423	8:24
	15,79933,74179	21,29877	9,05007	16,14825,8933	19,70619	
15	42498,95189,79235	46949,88191	1 10473,03477	9,62837,82196,8417	9,67163,45042	9: 0
	15,79804,28257	21,30225	9,05492	16,14093,4354	19,70048	
16	42514,74994,07492	46971,18416	1 10482,08969	9,62853,96290,2771	9,67183,15090	9:36
	15,79674,77525	21,30574	9,05976	16,13361,5219	19,69478	
17	42530,54668,85017	46992,48990	1 10491,14945	9,62870,09651,7990	9,67202,84568	10:12
	15,79545,21979	21,30925	9,06462	16,12630,1518	19,68908	
18	42546,34214,06996	47013,79915	1 10500,21407	9,62886,22281,9508	9,67222,53476	10:48
	15,79415,61622	21,31273	9,06948	16,11899,3248	19,68338	
19	42562,13629,68618	47035,11188	1 10509,28355	9,62902,34181,2756	9,67242,21814	11:24
	15,79285,96455	21,31624	9,07433	16,11169,0400	19,67770	
20	42577,92915,65073	47056,42812	1 10518,35788	9,62918,45350,3156	9,67261,89584	12: 0
	15,79156,26475	21,31974	9,07918	16,10439,2969	19,67202	
21	42593,72071,91548	47077,74786	1 10527,43706	9,62934,55789,6125	9,67281,56786	12:36
	15,79026,51686	21,32324	9,08405	16,09710,0948	19,66634	
22	42609,51098,43234	47099,07110	1 10536,52111	9,62950,65499,7073	9,67301,23420	13:12
	15,78896,72087	21,32675	9,08891	16,08981,4330	19,66067	
23	42625,29995,15321	47120,39785	1 10545,61002	9,62966,74481,1403	9,67320,89487	13:48
	15,78766,87678	21,33026	9,09377	16,08253,3110	19,65500	
24	42641,08762,02999	47141,72811	1 10554,70379	9,62982,82734,4513	9,67340,54987	14:24
	15,78636,98459	21,33377	9,09863	16,07525,7279	19,64935	
25	42656,87399,01458	47163,06188	1 10563,80242	9,62998,90260,1792	9,67360,19922	15: 0
	15,78507,04433	21,33728	9,10350	16,06798,6835	19,64369	
26	42672,65906,05891	47184,39916	1 10572,90592	9,63014,97058,8627	9,67379,84291	15:36
	15,78377,05598	21,34079	9,10837	16,06072,1766	19,63805	
27	42688,44283,11489	47205,73995	1 10582,01429	9,63031,03131,0393	9,67399,48096	16:12
	15,78247,01954	21,34431	9,11324	16,05346,2071	19,63240	
28	42704,22530,13443	47227,08426	1 10591,12753	9,63047,08477,2464	9,67419,11336	16:48
	15,78116,93504	21,34783	9,11811	16,04620,7739	19,62677	
29	42720,00647,06947	47248,43209	1 10600,24564	9,63063,13098,0203	9,67438,74013	17:24
	15,77986,80245	21,35135	9,12298	16,03895,8766	19,62114	
30	42735,78633,87192	47269,78344	1 10609,36862	9,63079,16993,8969	9,67458,36127	18: 0
	15,77856,62181	21,35488	9,12786	16,03171,5146	19,61551	
31	42751,56490,49373	47291,13832	1 10618,49648	9,63095,20165,4115	9,67477,97678	18:36
	15,77726,39309	21,35840	9,13274	16,02447,6872	19,60989	
32	42767,34216,88682	47312,49672	1 10627,62922	9,63111,22613,0987	9,67497,58667	19:12
	15,77596,11632	21,36193	9,13761	16,01724,3937	19,60428	
33	42783,11813,00314	47333,85865	1 10636,76683	9,63127,24337,4924	9,67517,19095	19:48
	15,77465,79148	21,36546	9,14249	16,01001,6335	19,59867	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
100	90630,77870,36650	2 14450,69205	2 36620,15832	9,95727,57114,8640	10,33132,74521	60: 0
	7,37746,04947	97,68285	88,52713	3,53535,6135	19,78674	
99	90623,40124,31703	2 14353,00920	2 36531,63119	9,95724,03579,2505	10,33112,95847	59:24
	7,38022,10413	97,60979	88,45371	3,53696,6997	19,78094	
98	90616,02102,21290	2 14255,39941	2 36443,17748	9,95720,49882,5508	10,33093,17753	58:48
	7,38298,13632	97,53682	88,38038	3,53857,8121	19,77516	
97	90608,63804,07658	2 14157,86259	2 36354,79710	9,95716,96024,7387	10,33073,40237	58:12
	7,38574,14601	97,46393	88,30714	3,54018,9508	19,76938	
96	90601,25229,93057	2 14060,39866	2 36266,48996	9,95713,42005,7879	10,33053,63299	57:36
	7,38850,13321	97,39113	88,23399	3,54180,1157	19,76361	
95	90593,86379,79736	2 13963,00753	2 36178,25597	9,95709,87825,6722	10,33033,86938	57: 0
	7,39126,09790	97,31842	88,16092	3,54341,3071	19,75783	
94	90586,47253,69946	2 13865,68911	2 36090,09505	9,95706,33484,3651	10,33014,11155	56:24
	7,39402,04007	97,24579	88,08794	3,54502,5246	19,75208	
93	90579,07851,65939	2 13768,44332	2 36002,00711	9,95702,78981,8405	10,32994,35947	55:48
	7,39677,95973	97,17326	88,01505	3,54663,7684	19,74632	
92	90571,68173,69966	2 13671,27006	2 35913,99206	9,95699,24318,0721	10,32974,61315	55:12
	7,39953,85684	97,10081	87,94224	3,54825,0387	19,74057	
91	90564,28219,84282	2 13574,16925	2 35826,04982	9,95695,69493,0334	10,32954,87258	54:36
	7,40229,73142	97,02844	87,86953	3,54986,3353	19,73483	
90	90556,87990,11140	2 13477,14081	2 35738,18029	9,95692,14506,6981	10,32935,13775	54: 0
	7,40505,58346	96,95617	87,79689	3,55147,6583	19,72909	
89	90549,47484,52794	2 13380,18464	2 35650,38340	9,95688,59359,0398	10,32915,40866	53:24
	7,40781,41292	96,88398	87,72434	3,55309,0075	19,72336	
88	90542,06703,11502	2 13283,30066	2 35562,65906	9,95685,04050,0323	10,32895,68530	52:48
	7,41057,21984	96,81187	87,65189	3,55470,3833	19,71762	
87	90534,65645,89518	2 13186,48879	2 35475,00717	9,95681,48579,6490	10,32875,96768	52:12
	7,41333,00416	96,73986	87,57951	3,55631,7855	19,71191	
86	90527,24312,89102	2 13089,74893	2 35387,42766	9,95677,92947,8635	10,32856,25577	51:36
	7,41608,76592	96,66793	87,50723	3,55793,2140	19,70619	
85	90519,82704,12510	2 12993,08100	2 35299,92043	9,95674,37154,6495	10,32836,54958	51: 0
	7,41884,50508	96,59608	87,43502	3,55954,6691	19,70048	
84	90512,40819,62002	2 12896,48492	2 35212,48541	9,95670,81199,9804	10,32816,84910	50:24
	7,42160,22165	96,52432	87,36291	3,56116,1506	19,69478	
83	90504,98659,39837	2 12799,96060	2 35125,12250	9,95667,25083,8298	10,32797,15432	49:48
	7,42435,91559	96,45266	87,29088	3,56277,6586	19,68908	
82	90497,56223,48278	2 12703,50794	2 35037,83162	9,95663,68806,1712	10,32777,46524	49:12
	7,42711,58694	96,38106	87,21894	3,56439,1931	19,68338	
81	90490,13511,89584	2 12607,12688	2 34950,61268	9,95660,12366,9781	10,32757,78186	48:36
	7,42987,23564	96,30956	87,14707	3,56600,7541	19,67770	
80	90482,70524,66020	2 12510,81732	2 34863,46561	9,95656,55766,2240	10,32738,10416	48: 0
	7,43262,86173	96,23815	87,07531	3,56762,3417	19,67202	
79	90475,27261,79847	2 12414,57917	2 34776,39030	9,95652,99003,8823	10,32718,43214	47:24
	7,43538,46517	96,16682	87,00361	3,56923,9558	19,66634	
78	90467,83723,33330	2 12318,41235	2 34689,38669	9,95649,42079,9265	10,32698,76580	46:48
	7,43814,04597	96,09557	86,93201	3,57085,5964	19,66067	
77	90460,39909,28733	2 12222,31678	2 34602,45468	9,95645,84994,3301	10,32679,10513	46:12
	7,44089,60409	96,02441	86,86049	3,57247,2637	19,65500	
76	90452,95819,68324	2 12126,29237	2 34515,59419	9,95642,27747,0664	10,32659,45013	45:36
	7,44365,13956	95,95333	86,78906	3,57408,9575	19,64935	
75	90445,51454,54368	2 12030,33904	2 34428,80513	9,95638,70338,1089	10,32639,80078	45: 0
	7,44640,65235	95,88234	86,71771	3,57570,6781	19,64369	
74	90438,06813,89133	2 11934,45670	2 34342,08742	9,95635,12767,4308	10,32620,15709	44:24
	7,44916,14246	95,81144	86,64644	3,57732,4251	19,63805	
73	90430,61897,74887	2 11838,64526	2 34255,44098	9,95631,55035,0057	10,32600,51904	43:48
	7,45191,60988	95,74061	86,57527	3,57894,1988	19,63240	
72	90423,16706,13899	2 11742,90465	2 34168,86571	9,95627,97140,8069	10,32580,88664	43:12
	7,45467,05460	95,66988	86,50416	3,58055,9993	19,62677	
71	90415,71239,08439	2 11647,23477	2 34082,36155	9,95624,39084,8076	10,32561,25987	42:36
	7,45742,47661	95,59922	86,43316	3,58217,8263	19,62114	
70	90408,25496,60778	2 11551,63555	2 33995,92839	9,95620,80866,9813	10,32541,63873	42: 0
	7,46017,87590	95,52865	86,36222	3,58379,6802	19,61551	
69	90400,79478,73188	2 11456,10690	2 33909,56617	9,95617,22487,3011	10,32522,02322	41:24
	7,46293,25246	95,45817	86,29138	3,58541,5606	19,60989	
68	90393,33185,47942	2 11360,64873	2 33823,27479	9,95613,63945,7405	10,32502,41333	40:48
	7,46568,60630	95,38776	86,22062	3,58703,4679	19,60428	
67	90385,86616,87312	2 11265,26097	2 33737,05417	9,95610,05242,2726	10,32482,80905	40:12
	7,46843,93740	95,31745	86,14994	3,58865,4019	19,59867	

GRAD. 64.

25. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	42783,11813,00314	47333,85865	1 10636,76683	9,63127,24337,4924	9,67517,19095	19:48
	15,77465,79148	21,36546	9,14249	16,01001,6335	19,59867	
34	42798,89278,79462	47355,22411	1 10645,90932	9,63143,25339,1259	9,67536,78962	20:24
	15,77335,41861	21,36899	9,14738	16,00279,4060	19,59307	
35	42814,66614,21323	47376,59310	1 10655,05670	9,63159,25618,5319	9,67556,38269	21: 0
	15,77204,99767	21,37252	9,15226	15,99557,7106	19,58747	
36	42830,43819,21090	47397,96562	1 10664,20896	9,63175,25176,2425	9,67575,97016	21:36
	15,77074,52870	21,37606	9,15715	15,98836,5466	19,58188	
37	42846,20893,73960	47419,34168	1 10673,36611	9,63191,24012,7891	9,67595,55204	22:12
	15,76944,01168	21,37960	9,16203	15,98115,9133	19,57629	
38	42861,97837,75128	47440,72128	1 10682,52814	9,63207,22128,7024	9,67615,12833	22:48
	15,76813,44663	21,38314	9,16692	15,97395,8104	19,57072	
39	42877,74651,19791	47462,10442	1 10691,69506	9,63223,19524,5128	9,67634,69905	23:24
	15,76682,83355	21,38668	9,17182	15,96676,2368	19,56513	
40	42893,51334,03146	47483,49110	1 10700,86688	9,63239,16200,7496	9,67654,26418	24: 0
	15,76552,17243	21,39023	9,17670	15,95957,1922	19,55957	
41	42909,27886,20389	47504,88133	1 10710,04358	9,63255,12157,9418	9,67673,82375	24:36
	15,76421,46330	21,39377	9,18160	15,95238,6758	19,55401	
42	42925,04307,66719	47526,27510	1 10719,22518	9,63271,07396,6176	9,67693,37776	25:12
	15,76290,70613	21,39733	9,18650	15,94520,6872	19,54845	
43	42940,80598,37332	47547,67243	1 10728,41168	9,63287,01917,3048	9,67712,92621	25:48
	15,76159,90096	21,40088	9,19140	15,93803,2255	19,54289	
44	42956,56758,27428	47569,07331	1 10737,60308	9,63302,95720,5303	9,67732,46910	26:24
	15,76029,04778	21,40443	9,19629	15,93086,2902	19,53735	
45	42972,32787,32206	47590,47774	1 10746,79937	9,63318,88806,8205	9,67752,00645	27: 0
	15,75898,14657	21,40798	9,20120	15,92369,8808	19,53180	
46	42988,08685,46863	47611,88572	1 10756,00057	9,63334,81176,7013	9,67771,53825	27:36
	15,75767,19738	21,41155	9,20610	15,91653,9965	19,52627	
47	43003,84452,66601	47633,29727	1 10765,20667	9,63350,72830,6978	9,67791,06452	28:12
	15,75636,20018	21,41510	9,21100	15,90938,6368	19,52074	
48	43019,60088,86619	47654,71237	1 10774,41767	9,63366,63769,3346	9,67810,58526	28:48
	15,75505,15497	21,41867	9,21592	15,90223,8008	19,51522	
49	43035,35594,02116	47676,13104	1 10783,63359	9,63382,53993,1354	9,67830,10048	29:24
	15,75374,06179	21,42223	9,22082	15,89509,4884	19,50969	
50	43051,10968,08295	47697,55327	1 10792,85441	9,63398,43502,6238	9,67849,61017	30: 0
	15,75242,92061	21,42580	9,22573	15,88795,6984	19,50418	
51	43066,86211,00356	47718,97907	1 10802,08014	9,63414,32298,3222	9,67869,11435	30:36
	15,75111,73144	21,42937	9,23064	15,88082,4307	19,49867	
52	43082,61322,73500	47740,40844	1 10811,31078	9,63430,20380,7529	9,67888,61302	31:12
	15,74980,49430	21,43294	9,23556	15,87369,6843	19,49317	
53	43098,36303,22930	47761,84138	1 10820,54634	9,63446,07750,4372	9,67908,10619	31:48
	15,74849,20918	21,43651	9,24048	15,86657,4588	19,48768	
54	43114,11152,43848	47783,27789	1 10829,78682	9,63461,94407,8960	9,67927,59387	32:24
	15,74717,87609	21,44009	9,24539	15,85945,7535	19,48218	
55	43129,85870,31457	47804,71798	1 10839,03221	9,63477,80353,6495	9,67947,07605	33: 0
	15,74586,49502	21,44367	9,25031	15,85234,5678	19,47669	
56	43145,60456,80959	47826,16165	1 10848,28252	9,63493,65588,2173	9,67966,55274	33:36
	15,74455,06600	21,44724	9,25523	15,84523,9011	19,47121	
57	43161,34911,87559	47847,60889	1 10857,53775	9,63509,50112,1184	9,67986,02395	34:12
	15,74323,58900	21,45083	9,26016	15,83813,7529	19,46574	
58	43177,09235,46459	47869,05972	1 10866,79791	9,63525,33925,8713	9,68005,48969	34:48
	15,74192,06407	21,45442	9,26508	15,83104,1222	19,46026	
59	43192,83427,52866	47890,51414	1 10876,06299	9,63541,17029,9935	9,68024,94995	35:24
	15,74060,49116	21,45800	9,27001	15,82395,0090	19,45480	
60	43208,57488,01982	47911,97214	1 10885,33300	9,63556,99425,0025	9,68044,40475	36: 0
	15,73928,87032	21,46159	9,27494	15,81686,4121	19,44935	
61	43224,31416,89014	47933,43373	1 10894,60794	9,63572,81111,4146	9,68063,85410	36:36
	15,73797,20153	21,46518	9,27986	15,80978,3312	19,44388	
62	43240,05214,09167	47954,89891	1 10903,88780	9,63588,62089,7458	9,68083,29798	37:12
	15,73665,48480	21,46878	9,28480	15,80270,7658	19,43844	
63	43255,78879,57647	47976,36769	1 10913,17260	9,63604,42360,5116	9,68102,73642	37:48
	15,73533,72014	21,47237	9,28973	15,79563,7149	19,43300	
64	43271,52413,29661	47997,84006	1 10922,46233	9,63620,21924,2265	9,68122,16942	38:24
	15,73401,90753	21,47597	9,29467	15,78857,1783	19,42756	
65	43287,25815,20414	48019,31603	1 10931,75700	9,63636,00781,4048	9,68141,59698	39: 0
	15,73270,04700	21,47956	9,29961	15,78151,1552	19,42213	
66	43302,99085,25114	48040,79559	1 10941,05661	9,63651,78932,5600	9,68161,01911	39:36
	15,73138,13855	21,48318	9,30454	15,77445,6450	19,41670	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	90385,86616,87312	2 11265,26097	2 33737,05417	9,95610,05242,2726	10,32482,80905	40:12
	7,46843,93740	95,31745	86,14994	3,58865,4019	19,59867	
66	90378,39772,93572	2 11169,94352	2 33650,90423	9,95606,46376,8707	10,32463,21038	39:36
	7,47119,24573	95,24721	86,07934	3,59027,3626	19,59307	
65	90370,92653,68999	2 11074,69631	2 33564,82489	9,95602,87349,5081	10,32443,61731	39: 0
	7,47394,53132	95,17706	86,00884	3,59189,3501	19,58747	
64	90363,45259,15867	2 10979,51925	2 33478,81605	9,95599,28160,1580	10,32424,02984	38:24
	7,47669,79414	95,10699	85,93841	3,59351,3645	19,58188	
63	90355,97589,36453	2 10884,41226	2 33392,87764	9,95595,68808,7935	10,32404,44796	37:48
	7,47945,03418	95,03701	85,86806	3,59513,4056	19,57629	
62	90348,49644,33035	2 10789,37525	2 33307,00958	9,95592,09295,3879	10,32384,87167	37:12
	7,48220,25144	94,96710	85,79780	3,59675,4736	19,57072	
61	90341,01424,07891	2 10694,40815	2 33221,21178	9,95588,49619,9143	10,32365,30095	36:36
	7,48495,44590	94,89729	85,72762	3,59837,5684	19,56513	
60	90333,52928,63301	2 10599,51086	2 33135,48416	9,95584,89782,3459	10,32345,73582	36: 0
	7,48770,61757	94,82755	85,65752	3,59999,6901	19,55957	
59	90326,04158,01544	2 10504,68331	2 33049,82664	9,95581,29782,6558	10,32326,17625	35:24
	7,49045,76643	94,75789	85,58751	3,60161,8386	19,55401	
58	90318,55112,24901	2 10409,92542	2 32964,23913	9,95577,69620,8172	10,32306,62224	34:48
	7,49320,89246	94,68833	85,51758	3,60324,0141	19,54845	
57	90311,05791,35655	2 10315,23709	2 32878,72155	9,95574,09296,8031	10,32287,07379	34:12
	7,49595,99568	94,61883	85,44772	3,60486,2165	19,54289	
56	90303,56195,36087	2 10220,61826	2 32793,27383	9,95570,48810,5866	10,32267,53090	33:36
	7,49871,07606	94,54943	85,37796	3,60648,4457	19,53735	
55	90296,06324,28481	2 10126,06883	2 32707,89587	9,95566,88162,1409	10,32247,99355	33: 0
	7,50146,13359	94,48011	85,30827	3,60810,7020	19,53180	
54	90288,56178,15122	2 10031,58872	2 32622,58760	9,95563,27351,4389	10,32228,46175	32:24
	7,50421,16828	94,41086	85,23867	3,60972,9852	19,52627	
53	90281,05756,98294	2 09937,17786	2 32537,34893	9,95559,66378,4537	10,32208,93548	31:48
	7,50696,18011	94,34170	85,16915	3,61135,2954	19,52074	
52	90273,55060,80283	2 09842,83616	2 32452,17978	9,95556,05243,1583	10,32189,41474	31:12
	7,50971,16907	94,27263	85,09970	3,61297,6326	19,51522	
51	90266,04089,63376	2 09748,56353	2 32367,08008	9,95552,43945,5257	10,32169,89952	30:36
	7,51246,13515	94,20362	85,03035	3,61459,9968	19,50969	
50	90258,52843,49861	2 09654,35991	2 32282,04973	9,95548,82485,5289	10,32150,38983	30: 0
	7,51521,07836	94,13471	84,96106	3,61622,3880	19,50418	
49	90251,01322,42025	2 09560,22520	2 32197,08867	9,95545,20863,1409	10,32130,88565	29:24
	7,51795,99866	94,06587	84,89187	3,61784,8062	19,49867	
48	90243,49526,42159	2 09466,15933	2 32112,19680	9,95541,59078,3347	10,32111,38698	28:48
	7,52070,89606	93,99713	84,82276	3,61947,2516	19,49317	
47	90235,97455,52553	2 09372,16220	2 32027,37404	9,95537,97131,0831	10,32091,89381	28:12
	7,52345,77057	93,92844	84,75371	3,62109,7240	19,48768	
46	90228,45109,75496	2 09278,23376	2 31942,62033	9,95534,35021,3591	10,32072,40613	27:36
	7,52620,62214	93,85986	84,68477	3,62272,2235	19,48218	
45	90220,92489,13282	2 09184,37390	2 31857,93556	9,95530,72749,1356	10,32052,92395	27: 0
	7,52895,45079	93,79135	84,61589	3,62434,7502	19,47669	
44	90213,39593,68203	2 09090,58255	2 31773,31967	9,95527,10314,3854	10,32033,44726	26:24
	7,53170,25651	93,72292	84,54710	3,62597,3038	19,47121	
43	90205,86423,42552	2 08996,85963	2 31688,77257	9,95523,47717,0816	10,32013,97605	25:48
	7,53445,03929	93,65456	84,47838	3,62759,8848	19,46574	
42	90198,32978,38623	2 08903,20507	2 31604,29419	9,95519,84957,1968	10,31994,51031	25:12
	7,53719,79912	93,58630	84,40975	3,62922,4928	19,46026	
41	90190,79258,58711	2 08809,61877	2 31519,88444	9,95516,22034,7040	10,31975,05005	24:36
	7,53994,53597	93,51811	84,34120	3,63085,1281	19,45480	
40	90183,25264,05114	2 08716,10066	2 31435,54324	9,95512,58949,5759	10,31955,59525	24: 0
	7,54269,24988	93,45000	84,27273	3,63247,7905	19,44935	
39	90175,70994,80126	2 08622,65066	2 31351,27051	9,95508,95701,7854	10,31936,14590	23:24
	7,54543,94079	93,38197	84,20433	3,63410,4801	19,44388	
38	90168,16450,86047	2 08529,26869	2 31267,06618	9,95505,32291,3053	10,31916,70202	22:48
	7,54818,60873	93,31403	84,13602	3,63573,1970	19,43844	
37	90160,61632,25174	2 08435,95466	2 31182,93016	9,95501,68718,1083	10,31897,26358	22:12
	7,55093,25367	93,24616	84,06779	3,63735,9412	19,43300	
36	90153,06538,99807	2 08342,70850	2 31098,86237	9,95498,04982,1671	10,31877,83058	21:36
	7,55367,87561	93,17836	83,99964	3,63898,7125	19,42756	
35	90145,51171,12246	2 08249,53014	2 31014,86273	9,95494,41083,4546	10,31858,40302	21: 0
	7,55642,47455	93,11066	83,93156	3,64061,5112	19,42213	
34	90137,95528,64791	2 08156,41948	2 30930,93117	9,95490,77021,9434	10,31838,98089	20:24
	7,55917,05045	93,04303	83,86357	3,64224,3371	19,41670	

GRAD. 64.

25. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	43318,72223,38969	48062,27877	1 10950,36115	9,63667,56378,2050	9,68180,43581	40:12
	15,73006,18218	21,48677	9,30949	15,76740,6472	19,41127	
68	43334,45229,57187	48083,76554	1 10959,67064	9,63683,33118,8522	9,68199,84708	40:48
	15,72874,17789	21,49038	9,31443	15,76036,1610	19,40587	
69	43350,18103,74976	48105,25592	1 10968,98507	9,63699,09155,0132	9,68219,25295	41:24
	15,72742,12568	21,49399	9,31937	15,75332,1860	19,40045	
70	43365,90845,87544	48126,74991	1 10978,30444	9,63714,84487,1992	9,68238,65340	42: 0
	15,72610,02558	21,49761	9,32433	15,74628,7215	19,39504	
71	43381,63455,90102	48148,24752	1 10987,62877	9,63730,59115,9207	9,68258,04844	42:36
	15,72477,87755	21,50121	9,32926	15,73925,7669	19,38965	
72	43397,35933,77857	48169,74873	1 10996,95803	9,63746,33041,6876	9,68277,43809	43:12
	15,72345,68165	21,50483	9,33422	15,73223,3217	19,38425	
73	43413,08279,46022	48191,25356	1 11006,29225	9,63762,06265,0093	9,68296,82234	43:48
	15,72213,43783	21,50845	9,33918	15,72521,3852	19,37887	
74	43428,80492,89805	48212,76201	1 11015,63143	9,63777,78786,3945	9,68316,20121	44:24
	15,72081,14612	21,51207	9,34412	15,71819,9568	19,37347	
75	43444,52574,04417	48234,27408	1 11024,97555	9,63793,50606,3513	9,68335,57468	45: 0
	15,71948,80653	21,51569	9,34908	15,71119,0361	19,36810	
76	43460,24522,85070	48255,78977	1 11034,32463	9,63809,21725,3874	9,68354,94278	45:36
	15,71816,41906	21,51932	9,35404	15,70418,6222	19,36273	
77	43475,96339,26976	48277,30909	1 11043,67867	9,63824,92144,0096	9,68374,30551	46:12
	15,71683,98369	21,52294	9,35900	15,69718,7146	19,35736	
78	43491,68023,25345	48298,83203	1 11053,03767	9,63840,61862,7242	9,68393,66287	46:48
	15,71551,50047	21,52657	9,36396	15,69019,3130	19,35200	
79	43507,39574,75392	48320,35860	1 11062,40163	9,63856,30882,0372	9,68413,01487	47:24
	15,71418,96936	21,53021	9,36892	15,68320,4163	19,34664	
80	43523,10993,72328	48341,88881	1 11071,77055	9,63871,99202,4535	9,68432,36151	48: 0
	15,71286,39038	21,53383	9,37389	15,67622,0244	19,34129	
81	43538,82280,11366	48363,42264	1 11081,14444	9,63887,66824,4779	9,68451,70280	48:36
	15,71153,76354	21,53747	9,37885	15,66924,1365	19,33594	
82	43554,53433,87720	48384,96011	1 11090,52329	9,63903,33748,6144	9,68471,03874	49:12
	15,71021,08885	21,54111	9,38382	15,66226,7519	19,33060	
83	43570,24454,96605	48406,50122	1 11099,90711	9,63918,99975,3663	9,68490,36934	49:48
	15,70888,36629	21,54475	9,38880	15,65529,8701	19,32526	
84	43585,95343,33234	48428,04597	1 11109,29591	9,63934,65505,2364	9,68509,69460	50:24
	15,70755,59589	21,54840	9,39376	15,64833,4907	19,31994	
85	43601,66098,92823	48449,59437	1 11118,68967	9,63950,30338,7271	9,68529,01454	51: 0
	15,70622,77763	21,55203	9,39874	15,64137,6128	19,31460	
86	43617,36721,70586	48471,14640	1 11128,08841	9,63965,94476,3399	9,68548,32914	51:36
	15,70489,91153	21,55569	9,40371	15,63442,2360	19,30929	
87	43633,07211,61739	48492,70209	1 11137,49212	9,63981,57918,5759	9,68567,63843	52:12
	15,70356,99760	21,55933	9,40870	15,62747,3598	19,30398	
88	43648,77568,61499	48514,26142	1 11146,90082	9,63997,20665,9357	9,68586,94241	52:48
	15,70224,03582	21,56298	9,41367	15,62052,9833	19,29866	
89	43664,47792,65081	48535,82440	1 11156,31449	9,64012,82718,9190	9,68606,24107	53:24
	15,70091,02621	21,56664	9,41865	15,61359,1063	19,29336	
90	43680,17883,67702	48557,39104	1 11165,73314	9,64028,44078,0253	9,68625,53443	54: 0
	15,69957,96878	21,57029	9,42364	15,60665,7280	19,28806	
91	43695,87841,64580	48578,96133	1 11175,15678	9,64044,04743,7533	9,68644,82249	54:36
	15,69824,86353	21,57396	9,42862	15,59972,8478	19,28277	
92	43711,57666,50933	48600,53529	1 11184,58540	9,64059,64716,6011	9,68664,10526	55:12
	15,69691,71045	21,57761	9,43361	15,59280,4652	19,27748	
93	43727,27358,21978	48622,11290	1 11194,01901	9,64075,23997,0663	9,68683,38274	55:48
	15,69558,50955	21,58127	9,43859	15,58588,5796	19,27220	
94	43742,96916,72933	48643,69417	1 11203,45760	9,64090,82585,6459	9,68702,65494	56:24
	15,69425,26086	21,58494	9,44359	15,57897,1905	19,26691	
95	43758,66341,99019	48665,27911	1 11212,90119	9,64106,40482,8364	9,68721,92185	57: 0
	15,69291,96434	21,58861	9,44858	15,57206,2972	19,26165	
96	43774,35633,95453	48686,86772	1 11222,34977	9,64121,97689,1336	9,68741,18350	57:36
	15,69158,62002	21,59227	9,45357	15,56515,8992	19,25638	
97	43790,04792,57455	48708,45999	1 11231,80334	9,64137,54205,0328	9,68760,43988	58:12
	15,69025,22792	21,59595	9,45857	15,55825,9958	19,25111	
98	43805,73817,80247	48730,05594	1 11241,26191	9,64153,10031,0286	9,68779,69099	58:48
	15,68891,78800	21,59962	9,46357	15,55136,5867	19,24586	
99	43821,42709,59047	48751,65556	1 11250,72548	9,64168,65167,6153	9,68798,93685	59:24
	15,68758,30030	21,60330	9,46857	15,54447,6710	19,24061	
100	43837,11467,89077	48773,25886	1 11260,19405	9,64184,19615,2863	9,68818,17746	60: 0
	15,68624,76482	21,60697	9,47357	15,53759,2484	19,23536	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	90130,39611,59746	2 08063,37645	2 30847,06760	9,95487,12797,6063	10,31819,56419	19:48
	7,56191,60335	92,97547	83,79565	3,64387,1904	19,41127	
32	90122,83419,99411	2 07970,40098	2 30763,27195	9,95483,48410,4159	10,31800,15292	19:12
	7,56466,13319	92,90801	83,72781	3,64550,0710	19,40587	
31	90115,26953,86092	2 07877,49297	2 30679,54414	9,95479,83860,3449	10,31780,74705	18:36
	7,56740,64000	92,84061	83,66006	3,64712,9790	19,40045	
30	90107,70213,22092	2 07784,65236	2 30595,88408	9,95476,19147,3659	10,31761,34660	18: 0
	7,57015,12376	92,77330	83,59238	3,64875,9143	19,39504	
29	90100,13198,09716	2 07691,87906	2 30512,29170	9,95472,54271,4516	10,31741,95156	17:24
	7,57289,58446	92,70607	83,52478	3,65038,8769	19,38965	
28	90092,55908,51270	2 07599,17299	2 30428,76692	9,95468,89232,5747	10,31722,56191	16:48
	7,57564,02208	92,63891	83,45725	3,65201,8671	19,38425	
27	90084,98344,49062	2 07506,53408	2 30345,30967	9,95465,24030,7076	10,31703,17766	16:12
	7,57838,43664	92,57183	83,38981	3,65364,8846	19,37887	
26	90077,40506,05398	2 07413,96225	2 30261,91986	9,95461,58665,8230	10,31683,79879	15:36
	7,58112,82810	92,50483	83,32245	3,65527,9295	19,37347	
25	90069,82393,22588	2 07321,45742	2 30178,59741	9,95457,93137,8935	10,31664,42532	15: 0
	7,58387,19648	92,43792	83,25516	3,65691,0019	19,36810	
24	90062,24006,02940	2 07229,01950	2 30095,34225	9,95454,27446,8916	10,31645,05722	14:24
	7,58661,54174	92,37107	83,18796	3,65854,1017	19,36273	
23	90054,65344,48766	2 07136,64843	2 30012,15429	9,95450,61592,7899	10,31625,69449	13:48
	7,58935,86391	92,30431	83,12082	3,66017,2291	19,35736	
22	90047,06408,62375	2 07044,34412	2 29929,03347	9,95446,95575,5608	10,31606,33713	13:12
	7,59210,16295	92,23762	83,05377	3,66180,3839	19,35200	
21	90039,47198,46080	2 06952,10650	2 29845,97970	9,95443,29395,1769	10,31586,98513	12:36
	7,59484,43886	92,17101	82,98679	3,66343,5662	19,34664	
20	90031,87714,02194	2 06859,93549	2 29762,99291	9,95439,63051,6107	10,31567,63849	12: 0
	7,59758,69165	92,10448	82,91989	3,66506,7761	19,34129	
19	90024,27955,33029	2 06767,83101	2 29680,07302	9,95435,96544,8346	10,31548,29720	11:24
	7,60032,92128	92,03803	82,85308	3,66670,0136	19,33594	
18	90016,67922,40901	2 06675,79298	2 29597,21994	9,95432,29874,8210	10,31528,96126	10:48
	7,60307,12777	91,97165	82,78633	3,66833,2785	19,33060	
17	90009,07615,28124	2 06583,82133	2 29514,43361	9,95428,63041,5425	10,31509,63066	10:12
	7,60581,31109	91,90536	82,71967	3,66996,5712	19,32526	
16	90001,47033,97015	2 06491,91597	2 29431,71394	9,95424,96044,9713	10,31490,30540	9:36
	7,60855,47125	91,83913	82,65308	3,67159,8913	19,31994	
15	89993,86178,49890	2 06400,07684	2 29349,06086	9,95421,28885,0800	10,31470,98546	9: 0
	7,61129,60823	91,77299	82,58656	3,67323,2391	19,31460	
14	89986,25048,89067	2 06308,30385	2 29266,47430	9,95417,61561,8409	10,31451,67086	8:24
	7,61403,72202	91,70693	82,52013	3,67486,6145	19,30929	
13	89978,63645,16865	2 06216,59692	2 29183,95417	9,95413,94075,2264	10,31432,36157	7:48
	7,61677,81262	91,64093	82,45378	3,67650,0176	19,30398	
12	89971,01967,35603	2 06124,95599	2 29101,50039	9,95410,26425,2088	10,31413,05759	7:12
	7,61951,88002	91,57502	82,38749	3,67813,4483	19,29866	
11	89963,40015,47601	2 06033,38097	2 29019,11290	9,95406,58611,7605	10,31393,75893	6:36
	7,62225,92421	91,50918	82,32129	3,67976,9068	19,29336	
10	89955,77789,55180	2 05941,87179	2 28936,79161	9,95402,90634,8537	10,31374,46557	6: 0
	7,62499,94517	91,44343	82,25515	3,68140,3929	19,28806	
9	89948,15289,60663	2 05850,42836	2 28854,53646	9,95399,22494,4608	10,31355,17751	5:24
	7,62773,94292	91,37774	82,18911	3,68303,9068	19,28277	
8	89940,52515,66371	2 05759,05062	2 28772,34735	9,95395,54190,5540	10,31335,89474	4:48
	7,63047,91742	91,31214	82,12313	3,68467,4483	19,27748	
7	89932,89467,74629	2 05667,73848	2 28690,22422	9,95391,85723,1057	10,31316,61726	4:12
	7,63321,86869	91,24660	82,05723	3,68631,0177	19,27220	
6	89925,26145,87760	2 05576,49188	2 28608,16699	9,95388,17092,0880	10,31297,34506	3:36
	7,63595,79670	91,18115	81,99141	3,68794,6148	19,26691	
5	89917,62550,08090	2 05485,31073	2 28526,17558	9,95384,48297,4732	10,31278,07815	3: 0
	7,63869,70144	91,11577	81,92565	3,68958,2397	19,26165	
4	89909,98680,37946	2 05394,19496	2 28444,24993	9,95380,79339,2335	10,31258,81650	2:24
	7,64143,58293	91,05046	81,85999	3,69121,8924	19,25638	
3	89902,34536,79653	2 05303,14450	2 28362,38994	9,95377,10217,3411	10,31239,56012	1:48
	7,64417,44113	90,98524	81,79439	3,69285,5730	19,25111	
2	89894,70119,35540	2 05212,15926	2 28280,59555	9,95373,40931,7681	10,31220,30901	1:12
	7,64691,27605	90,92009	81,72886	3,69449,2813	19,24586	
1	89887,05428,07935	2 05121,23917	2 28198,86669	9,95369,71482,4868	10,31201,06315	0:36
	7,64965,08768	90,85501	81,66342	3,69613,0175	19,24061	
0	89879,40462,99167	2 05030,38416	2 28117,20327	9,95366,01869,4693	10,31181,82254	0: 0
	7,65238,87600	90,79001	81,59805	3,69776,7816	19,23536	

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26. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
0	43837,11467,89077	48773,25886	1 11260,19405	9,64184,19615,2863	9,68818,17746	0: 0
	15,68624,76482	21,60697	9,47357	15,53759,2484	19,23536	
1	43852,80092,65559	48794,86583	1 11269,66762	9,64199,73374,5347	9,68837,41282	0:36
	15,68491,18155	21,61066	9,47857	15,53071,3181	19,23012	
2	43868,48583,83714	48816,47649	1 11279,14619	9,64215,26445,8528	9,68856,64294	1:12
	15,68357,55049	21,61434	9,48358	15,52383,8798	19,22488	
3	43884,16941,38763	48838,09083	1 11288,62977	9,64230,78829,7326	9,68875,86782	1:48
	15,68223,87168	21,61802	9,48858	15,51696,9326	19,21965	
4	43899,85165,25931	48859,70885	1 11298,11835	9,64246,30526,6652	9,68895,08747	2:24
	15,68090,14507	21,62171	9,49360	15,51010,4761	19,21443	
5	43915,53255,40438	48881,33056	1 11307,61195	9,64261,81537,1413	9,68914,30190	3: 0
	15,67956,37072	21,62540	9,49860	15,50324,5099	19,20920	
6	43931,21211,77510	48902,95596	1 11317,11055	9,64277,31861,6512	9,68933,51110	3:36
	15,67822,54859	21,62909	9,50362	15,49639,0332	19,20399	
7	43946,89034,32369	48924,58505	1 11326,61417	9,64292,81500,6844	9,68952,71509	4:12
	15,67688,67871	21,63279	9,50863	15,48954,0455	19,19878	
8	43962,56723,00240	48946,21784	1 11336,12280	9,64308,30454,7299	9,68971,91387	4:48
	15,67554,76107	21,63648	9,51365	15,48269,5462	19,19358	
9	43978,24277,76347	48967,85432	1 11345,63645	9,64323,78724,2761	9,68991,10745	5:24
	15,67420,79568	21,64018	9,51867	15,47585,5349	19,18837	
10	43993,91698,55915	48989,49450	1 11355,15512	9,64339,26309,8110	9,69010,29582	6: 0
	15,67286,78255	21,64388	9,52369	15,46902,0107	19,18318	
11	44009,58985,34170	49011,13838	1 11364,67881	9,64354,73211,8217	9,69029,47900	6:36
	15,67152,72167	21,64759	9,52871	15,46218,9735	19,17799	
12	44025,26138,06337	49032,78597	1 11374,20752	9,64370,19430,7952	9,69048,65699	7:12
	15,67018,61306	21,65129	9,53373	15,45536,4223	19,17281	
13	44040,93156,67643	49054,43726	1 11383,74125	9,64385,64967,2175	9,69067,82980	7:48
	15,66884,45670	21,65500	9,53876	15,44854,3568	19,16762	
14	44056,60041,13313	49076,09226	1 11393,28001	9,64401,09821,5743	9,69086,99742	8:24
	15,66750,25263	21,65871	9,54379	15,44172,7764	19,16245	
15	44072,26791,38576	49097,75097	1 11402,82380	9,64416,53994,3507	9,69106,15987	9: 0
	15,66616,00083	21,66242	9,54881	15,43491,6804	19,15729	
16	44087,93407,38659	49119,41339	1 11412,37261	9,64431,97486,0311	9,69125,31716	9:36
	15,66481,70129	21,66613	9,55385	15,42811,0685	19,15212	
17	44103,59889,08788	49141,07952	1 11421,92646	9,64447,40297,0996	9,69144,46928	10:12
	15,66347,35405	21,66986	9,55889	15,42130,9400	19,14696	
18	44119,26236,44193	49162,74938	1 11431,48535	9,64462,82428,0396	9,69163,61624	10:48
	15,66212,95910	21,67357	9,56391	15,41451,2942	19,14180	
19	44134,92449,40103	49184,42295	1 11441,04926	9,64478,23879,3338	9,69182,75804	11:24
	15,66078,51642	21,67729	9,56896	15,40772,1307	19,13666	
20	44150,58527,91745	49206,10024	1 11450,61822	9,64493,64651,4645	9,69201,89470	12: 0
	15,65944,02605	21,68102	9,57399	15,40093,4491	19,13151	
21	44166,24471,94350	49227,78126	1 11460,19221	9,64509,04744,9136	9,69221,02621	12:36
	15,65809,48798	21,68474	9,57903	15,39415,2485	19,12638	
22	44181,90281,43148	49249,46600	1 11469,77124	9,64524,44160,1621	9,69240,15259	13:12
	15,65674,90221	21,68847	9,58408	15,38737,5286	19,12124	
23	44197,55956,33369	49271,15447	1 11479,35532	9,64539,82897,6907	9,69259,27383	13:48
	15,65540,26874	21,69220	9,58912	15,38060,2888	19,11612	
24	44213,21496,60243	49292,84667	1 11488,94444	9,64555,20957,9795	9,69278,38995	14:24
	15,65405,58758	21,69593	9,59417	15,37383,5285	19,11099	
25	44228,86902,19001	49314,54260	1 11498,53861	9,64570,58341,5080	9,69297,50094	15: 0
	15,65270,85875	21,69967	9,59922	15,36707,2471	19,10587	
26	44244,52173,04876	49336,24227	1 11508,13783	9,64585,95048,7551	9,69316,60681	15:36
	15,65136,08223	21,70341	9,60426	15,36031,4442	19,10076	
27	44260,17309,13099	49357,94568	1 11517,74209	9,64601,31080,1993	9,69335,70757	16:12
	15,65001,25803	21,70714	9,60932	15,35356,1191	19,09565	
28	44275,82310,38902	49379,65282	1 11527,35141	9,64616,66436,3184	9,69354,80322	16:48
	15,64866,38616	21,71089	9,61438	15,34681,2714	19,09055	
29	44291,47176,77518	49401,36371	1 11536,96579	9,64632,01117,5898	9,69373,89377	17:24
	15,64731,46662	21,71463	9,61942	15,34006,9005	19,08545	
30	44307,11908,24180	49423,07834	1 11546,58521	9,64647,35124,4903	9,69392,97922	18: 0
	15,64596,49942	21,71838	9,62449	15,33333,0058	19,08036	
31	44322,76504,74122	49444,79672	1 11556,20970	9,64662,68457,4961	9,69412,05958	18:36
	15,64461,48455	21,72213	9,62955	15,32659,5867	19,07526	
32	44338,40966,22577	49466,51885	1 11565,83925	9,64678,01117,0828	9,69431,13484	19:12
	15,64326,42204	21,72588	9,63461	15,31986,6428	19,07019	
33	44354,05292,64781	49488,24473	1 11575,47386	9,64693,33103,7256	9,69450,20503	19:48
	15,64191,31187	21,72963	9,63967	15,31314,1736	19,06511	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
100	89879,40462,99167	2 05030,38416	2 28117,20327	9,95366,01869,4693	10,31181,82254	60: 0
	7,65238,87600	90,79001	81,59805	3,69776,7816	19,23536	
99	89871,75224,11567	2 04939,59415	2 28035,60522	9,95362,32092,6877	10,31162,58718	59:24
	7,65512,64101	90,72509	81,53275	3,69940,5736	19,23012	
98	89864,09711,47466	2 04848,86906	2 27954,07247	9,95358,62152,1141	10,31143,35706	58:48
	7,65786,38270	90,66023	81,46753	3,70104,3934	19,22488	
97	89856,43925,09196	2 04758,20883	2 27872,60494	9,95354,92047,7207	10,31124,13218	58:12
	7,66060,10107	90,59546	81,40238	3,70268,2413	19,21965	
96	89848,77864,99089	2 04667,61337	2 27791,20256	9,95351,21779,4794	10,31104,91253	57:36
	7,66333,79610	90,53076	81,33732	3,70432,1170	19,21443	
95	89841,11531,19479	2 04577,08261	2 27709,86524	9,95347,51347,3624	10,31085,69810	57: 0
	7,66607,46779	90,46613	81,27231	3,70596,0208	19,20920	
94	89833,44923,72700	2 04486,61648	2 27628,59293	9,95343,80751,3416	10,31066,48890	56:24
	7,66881,11612	90,40158	81,20739	3,70759,9524	19,20399	
93	89825,78042,61088	2 04396,21490	2 27547,38554	9,95340,09991,3892	10,31047,28491	55:48
	7,67154,74110	90,33711	81,14255	3,70923,9121	19,19878	
92	89818,10887,86978	2 04305,87779	2 27466,24299	9,95336,39067,4771	10,31028,08613	55:12
	7,67428,34270	90,27270	81,07777	3,71087,8998	19,19358	
91	89810,43459,52708	2 04215,60509	2 27385,16522	9,95332,67979,5773	10,31008,89255	54:36
	7,67701,92092	90,20838	81,01307	3,71251,9155	19,18837	
90	89802,75757,60616	2 04125,39671	2 27304,15215	9,95328,96727,6618	10,30989,70418	54: 0
	7,67975,47577	90,14412	80,94845	3,71415,9592	19,18318	
89	89795,07782,13039	2 04035,25259	2 27223,20370	9,95325,25311,7026	10,30970,52100	53:24
	7,68249,00722	90,07994	80,88390	3,71580,0311	19,17799	
88	89787,39533,12317	2 03945,17265	2 27142,31980	9,95321,53731,6715	10,30951,34301	52:48
	7,68522,51527	90,01584	80,81941	3,71744,1309	19,17281	
87	89779,71010,60790	2 03855,15681	2 27061,50039	9,95317,81987,5406	10,30932,17020	52:12
	7,68795,99990	89,95181	80,75502	3,71908,2590	19,16762	
86	89772,02214,60800	2 03765,20500	2 26980,74537	9,95314,10079,2816	10,30913,00258	51:36
	7,69069,46112	89,88784	80,69068	3,72072,4151	19,16245	
85	89764,33145,14688	2 03675,31716	2 26900,05469	9,95310,38006,8665	10,30893,84013	51: 0
	7,69342,89890	89,82397	80,62643	3,72236,5992	19,15729	
84	89756,63802,24798	2 03585,49319	2 26819,42826	9,95306,65770,2673	10,30874,68284	50:24
	7,69616,31327	89,76015	80,56224	3,72400,8117	19,15212	
83	89748,94185,93471	2 03495,73304	2 26738,86602	9,95302,93369,4556	10,30855,53072	49:48
	7,69889,70417	89,69642	80,49813	3,72565,0522	19,14696	
82	89741,24296,23054	2 03406,03662	2 26658,36789	9,95299,20804,4034	10,30836,38376	49:12
	7,70163,07163	89,63275	80,43410	3,72729,3210	19,14180	
81	89733,54133,15891	2 03316,40387	2 26577,93379	9,95295,48075,0824	10,30817,24196	48:36
	7,70436,41563	89,56916	80,37013	3,72893,6178	19,13666	
80	89725,83696,74328	2 03226,83471	2 26497,56366	9,95291,75181,4646	10,30798,10530	48: 0
	7,70709,73615	89,50565	80,30624	3,73057,9430	19,13151	
79	89718,12987,00713	2 03137,32906	2 26417,25742	9,95288,02123,5216	10,30778,97379	47:24
	7,70983,03321	89,44220	80,24242	3,73222,2964	19,12638	
78	89710,42003,97392	2 03047,88686	2 26337,01500	9,95284,28901,2252	10,30759,84741	46:48
	7,71256,30677	89,37883	80,17868	3,73386,6780	19,12124	
77	89702,70747,66715	2 02958,50803	2 26256,83632	9,95280,55514,5472	10,30740,72617	46:12
	7,71529,55685	89,31553	80,11500	3,73551,0879	19,11612	
76	89694,99218,11030	2 02869,19250	2 26176,72132	9,95276,81963,4593	10,30721,61005	45:36
	7,71802,78342	89,25230	80,05140	3,73715,5261	19,11099	
75	89687,27415,32688	2 02779,94020	2 26096,66992	9,95273,08247,9332	10,30702,49906	45: 0
	7,72075,98647	89,18915	79,98788	3,73879,9926	19,10587	
74	89679,55339,34041	2 02690,75105	2 26016,68204	9,95269,34367,9406	10,30683,39319	44:24
	7,72349,16602	89,12607	79,92442	3,74044,4873	19,10076	
73	89671,82990,17439	2 02601,62498	2 25936,75762	9,95265,60323,4533	10,30664,29243	43:48
	7,72622,32203	89,06306	79,86103	3,74209,0105	19,09565	
72	89664,10367,85236	2 02512,56192	2 25856,89659	9,95261,86114,4428	10,30645,19678	43:12
	7,72895,45451	89,00012	79,79773	3,74373,5620	19,09055	
71	89656,37472,39785	2 02423,56180	2 25777,09886	9,95258,11740,8808	10,30626,10623	42:36
	7,73168,56344	88,93726	79,73448	3,74538,1419	19,08545	
70	89648,64303,83441	2 02334,62454	2 25697,36438	9,95254,37202,7389	10,30607,02078	42: 0
	7,73441,64883	88,87447	79,67132	3,74702,7501	19,08036	
69	89640,90862,18558	2 02245,75007	2 25617,69306	9,95250,62499,9888	10,30587,94042	41:24
	7,73714,71065	88,81175	79,60822	3,74867,3868	19,07526	
68	89633,17147,47493	2 02156,93832	2 25538,08484	9,95246,87632,6020	10,30568,86516	40:48
	7,73987,74890	88,74909	79,54520	3,75032,0518	19,07019	
67	89625,43159,72603	2 02068,18923	2 25458,53964	9,95243,12600,5502	10,30549,79497	40:12
	7,74260,76358	88,68652	79,48224	3,75196,7454	19,06511	

GRAD. 63.

26. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	44354,05292,64781	49488,24473	1 11575,47386	9,64693,33103,7256	9,69450,20503	19:48
	15,64191,31187	21,72963	9,63967	15,31314,1736	19,06511	
34	44369,69483,95968	49509,97436	1 11585,11353	9,64708,64417,8992	9,69469,27014	20:24
	15,64056,15404	21,73339	9,64474	15,30642,1783	19,06004	
35	44385,33540,11372	49531,70775	1 11594,75827	9,64723,95060,0775	9,69488,33018	21: 0
	15,63920,94859	21,73714	9,64980	15,29970,6566	19,05497	
36	44400,97461,06231	49553,44489	1 11604,40807	9,64739,25030,7341	9,69507,38515	21:36
	15,63785,69548	21,74091	9,65487	15,29299,6078	19,04990	
37	44416,61246,75779	49575,18580	1 11614,06294	9,64754,54330,3419	9,69526,43505	22:12
	15,63650,39474	21,74467	9,65995	15,28629,0316	19,04485	
38	44432,24897,15253	49596,93047	1 11623,72289	9,64769,82959,3735	9,69545,47990	22:48
	15,63515,04637	21,74843	9,66502	15,27958,9271	19,03980	
39	44447,88412,19890	49618,67890	1 11633,38791	9,64785,10918,3006	9,69564,51970	23:24
	15,63379,65037	21,75220	9,67009	15,27289,2940	19,03474	
40	44463,51791,84927	49640,43110	1 11643,05800	9,64800,38207,5946	9,69583,55444	24: 0
	15,63244,20676	21,75597	9,67517	15,26620,1318	19,02971	
41	44479,15036,05603	49662,18707	1 11652,73317	9,64815,64827,7264	9,69602,58415	24:36
	15,63108,71551	21,75974	9,68025	15,25951,4398	19,02467	
42	44494,78144,77154	49683,94681	1 11662,41342	9,64830,90779,1662	9,69621,60882	25:12
	15,62973,17666	21,76352	9,68533	15,25283,2176	19,01963	
43	44510,41117,94820	49705,71033	1 11672,09875	9,64846,16062,3838	9,69640,62845	25:48
	15,62837,59020	21,76729	9,69041	15,24615,4646	19,01461	
44	44526,03955,53840	49727,47762	1 11681,78916	9,64861,40677,8484	9,69659,64306	26:24
	15,62701,95612	21,77107	9,69550	15,23948,1802	19,00958	
45	44541,66657,49452	49749,24869	1 11691,48466	9,64876,64626,0286	9,69678,65264	27: 0
	15,62566,27444	21,77485	9,70058	15,23281,3640	19,00457	
46	44557,29223,76896	49771,02354	1 11701,18524	9,64891,87907,3926	9,69697,65721	27:36
	15,62430,54518	21,77864	9,70567	15,22615,0154	18,99955	
47	44572,91654,31414	49792,80218	1 11710,89091	9,64907,10522,4080	9,69716,65676	28:12
	15,62294,76830	21,78242	9,71076	15,21949,1339	18,99455	
48	44588,53949,08244	49814,58460	1 11720,60167	9,64922,32471,5419	9,69735,65131	28:48
	15,62158,94385	21,78621	9,71586	15,21283,7188	18,98954	
49	44604,16108,02629	49836,37081	1 11730,31753	9,64937,53755,2607	9,69754,64085	29:24
	15,62023,07180	21,79000	9,72095	15,20618,7699	18,98455	
50	44619,78131,09809	49858,16081	1 11740,03848	9,64952,74374,0306	9,69773,62540	30: 0
	15,61887,15217	21,79379	9,72604	15,19954,2864	18,97955	
51	44635,40018,25026	49879,95460	1 11749,76452	9,64967,94328,3170	9,69792,60495	30:36
	15,61751,18498	21,79758	9,73114	15,19290,2679	18,97456	
52	44651,01769,43524	49901,75218	1 11759,49566	9,64983,13618,5849	9,69811,57951	31:12
	15,61615,17019	21,80139	9,73625	15,18626,7137	18,96958	
53	44666,63384,60543	49923,55357	1 11769,23191	9,64998,32245,2986	9,69830,54909	31:48
	15,61479,10785	21,80518	9,74134	15,17963,6235	18,96461	
54	44682,24863,71328	49945,35875	1 11778,97325	9,65013,50208,9221	9,69849,51370	32:24
	15,61342,99793	21,80899	9,74645	15,17300,9966	18,95963	
55	44697,86206,71121	49967,16774	1 11788,71970	9,65028,67509,9187	9,69868,47333	33: 0
	15,61206,84046	21,81279	9,75155	15,16638,8327	18,95466	
56	44713,47413,55167	49988,98053	1 11798,47125	9,65043,84148,7514	9,69887,42799	33:36
	15,61070,63543	21,81659	9,75666	15,15977,1309	18,94969	
57	44729,08484,18710	50010,79712	1 11808,22791	9,65059,00125,8823	9,69906,37768	34:12
	15,60934,38285	21,82041	9,76177	15,15315,8911	18,94474	
58	44744,69418,56995	50032,61753	1 11817,98968	9,65074,15441,7734	9,69925,32242	34:48
	15,60798,08271	21,82421	9,76688	15,14655,1124	18,93979	
59	44760,30216,65266	50054,44174	1 11827,75656	9,65089,30096,8858	9,69944,26221	35:24
	15,60661,73504	21,82803	9,77200	15,13994,7945	18,93483	
60	44775,90878,38770	50076,26977	1 11837,52856	9,65104,44091,6803	9,69963,19704	36: 0
	15,60525,33982	21,83185	9,77711	15,13334,9369	18,92989	
61	44791,51403,72752	50098,10162	1 11847,30567	9,65119,57426,6172	9,69982,12693	36:36
	15,60388,89706	21,83566	9,78223	15,12675,5389	18,92496	
62	44807,11792,62458	50119,93728	1 11857,08790	9,65134,70102,1561	9,70001,05189	37:12
	15,60252,40678	21,83949	9,78735	15,12016,6002	18,92002	
63	44822,72045,03136	50141,77677	1 11866,87525	9,65149,82118,7563	9,70019,97191	37:48
	15,60115,86896	21,84331	9,79247	15,11358,1201	18,91509	
64	44838,32160,90032	50163,62008	1 11876,66772	9,65164,93476,8764	9,70038,88700	38:24
	15,59979,28363	21,84713	9,79759	15,10700,0981	18,91016	
65	44853,92140,18395	50185,46721	1 11886,46531	9,65180,04176,9745	9,70057,79716	39: 0
	15,59842,65077	21,85096	9,80271	15,10042,5339	18,90525	
66	44869,51982,83472	50207,31817	1 11896,26802	9,65195,14219,5084	9,70076,70241	39:36
	15,59705,97039	21,85479	9,80785	15,09385,4266	18,90033	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	89625,43159,72603	2 02068,18923	2 25458,53964	9,95243,12600,5502	10,30549,79497	40:12
	7,74260,76358	88,68652	79,48224	3,75196,7454	19,06511	
66	89617,68898,96245	2 01979,50271	2 25379,05740	9,95239,37403,8048	10,30530,72986	39:36
	7,74533,75467	88,62402	79,41936	3,75361,4674	19,06004	
65	89609,94365,20778	2 01890,87869	2 25299,63804	9,95235,62042,3374	10,30511,66982	39: 0
	7,74806,72217	88,56158	79,35656	3,75526,2178	19,05497	
64	89602,19558,48561	2 01802,31711	2 25220,28148	9,95231,86516,1196	10,30492,61485	38:24
	7,75079,66606	88,49921	79,29381	3,75690,9968	19,04990	
63	89594,44478,81955	2 01713,81790	2 25140,98767	9,95228,10825,1228	10,30473,56495	37:48
	7,75352,58635	88,43693	79,23114	3,75855,8043	19,04485	
62	89586,69126,23320	2 01625,38097	2 25061,75653	9,95224,34969,3185	10,30454,52010	37:12
	7,75625,48302	88,37471	79,16855	3,76020,6402	19,03980	
61	89578,93500,75018	2 01537,00626	2 24982,58798	9,95220,58948,6783	10,30435,48030	36:36
	7,75898,35605	88,31255	79,10602	3,76185,5048	19,03474	
60	89571,17602,39413	2 01448,69371	2 24903,48196	9,95216,82763,1735	10,30416,44556	36: 0
	7,76171,20546	88,25048	79,04357	3,76350,3979	19,02971	
59	89563,41431,18867	2 01360,44323	2 24824,43839	9,95213,06412,7756	10,30397,41585	35:24
	7,76444,03122	88,18847	78,98118	3,76515,3196	19,02467	
58	89555,64987,15745	2 01272,25476	2 24745,45721	9,95209,29897,4560	10,30378,39118	34:48
	7,76716,83333	88,12653	78,91887	3,76680,2699	19,01963	
57	89547,88270,32412	2 01184,12823	2 24666,53834	9,95205,53217,1861	10,30359,37155	34:12
	7,76989,61178	88,06467	78,85662	3,76845,2488	19,01461	
56	89540,11280,71234	2 01096,06356	2 24587,68172	9,95201,76371,9373	10,30340,35694	33:36
	7,77262,36656	88,00287	78,79445	3,77010,2563	19,00958	
55	89532,34018,34578	2 01008,06069	2 24508,88727	9,95197,99361,6810	10,30321,34736	33: 0
	7,77535,09766	87,94114	78,73234	3,77175,2925	19,00457	
54	89524,56483,24812	2 00920,11955	2 24430,15493	9,95194,22186,3885	10,30302,34279	32:24
	7,77807,80509	87,87949	78,67032	3,77340,3573	18,99955	
53	89516,78675,44303	2 00832,24006	2 24351,48461	9,95190,44846,0312	10,30283,34324	31:48
	7,78080,48880	87,81790	78,60835	3,77505,4509	18,99455	
52	89509,00594,95423	2 00744,42216	2 24272,87626	9,95186,67340,5803	10,30264,34869	31:12
	7,78353,14883	87,75639	78,54645	3,77670,5731	18,98954	
51	89501,22241,80540	2 00656,66577	2 24194,32981	9,95182,89670,0072	10,30245,35915	30:36
	7,78625,78515	87,69494	78,48464	3,77835,7241	18,98455	
50	89493,43616,02025	2 00568,97083	2 24115,84517	9,95179,11834,2831	10,30226,37460	30: 0
	7,78898,39774	87,63357	78,42287	3,78000,9038	18,97955	
49	89485,64717,62251	2 00481,33726	2 24037,42230	9,95175,33833,3793	10,30207,39505	29:24
	7,79170,98661	87,57226	78,36120	3,78166,1123	18,97456	
48	89477,85546,63590	2 00393,76500	2 23959,06110	9,95171,55667,2670	10,30188,42049	28:48
	7,79443,55174	87,51103	78,29958	3,78331,3495	18,96958	
47	89470,06103,08416	2 00306,25397	2 23880,76152	9,95167,77335,9175	10,30169,45091	28:12
	7,79716,09314	87,44986	78,23803	3,78496,6155	18,96461	
46	89462,26386,99102	2 00218,80411	2 23802,52349	9,95163,98839,3020	10,30150,48630	27:36
	7,79988,61077	87,38877	78,17656	3,78661,9104	18,95963	
45	89454,46398,38025	2 00131,41534	2 23724,34693	9,95160,20177,3916	10,30131,52667	27: 0
	7,80261,10465	87,32773	78,11515	3,78827,2340	18,95466	
44	89446,66137,27560	2 00044,08761	2 23646,23178	9,95156,41350,1576	10,30112,57201	26:24
	7,80533,57477	87,26678	78,05382	3,78992,5865	18,94969	
43	89438,85603,70083	1 99956,82083	2 23568,17796	9,95152,62357,5711	10,30093,62232	25:48
	7,80806,02109	87,20589	77,99254	3,79157,9679	18,94474	
42	89431,04797,67974	1 99869,61494	2 23490,18542	9,95148,83199,6032	10,30074,67758	25:12
	7,81078,44365	87,14506	77,93135	3,79323,3782	18,93979	
41	89423,23719,23609	1 99782,46988	2 23412,25407	9,95145,03876,2250	10,30055,73779	24:36
	7,81350,84241	87,08432	77,87021	3,79488,8173	18,93483	
40	89415,42368,39368	1 99695,38556	2 23334,38386	9,95141,24387,4077	10,30036,80296	24: 0
	7,81623,21736	87,02363	77,80915	3,79654,2853	18,92989	
39	89407,60745,17632	1 99608,36193	2 23256,57471	9,95137,44733,1224	10,30017,87307	23:24
	7,81895,56851	86,96302	77,74816	3,79819,7823	18,92496	
38	89399,78849,60781	1 99521,39891	2 23178,82655	9,95133,64913,3401	10,29998,94811	22:48
	7,82167,89583	86,90248	77,68723	3,79985,3083	18,92002	
37	89391,96681,71198	1 99434,49643	2 23101,13932	9,95129,84928,0318	10,29980,02809	22:12
	7,82440,19934	86,84200	77,62637	3,80150,8632	18,91509	
36	89384,14241,51264	1 99347,65443	2 23023,51295	9,95126,04777,1686	10,29961,11300	21:36
	7,82712,47901	86,78159	77,56558	3,80316,4471	18,91016	
35	89376,31529,03363	1 99260,87284	2 22945,94737	9,95122,24460,7215	10,29942,20284	21: 0
	7,82984,73483	86,72124	77,50487	3,80482,0600	18,90525	
34	89368,48544,29880	1 99174,15160	2 22868,44250	9,95118,43978,6615	10,29923,29759	20:24
	7,83256,96680	86,66098	77,44421	3,80647,7019	18,90033	

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26. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	44885,11688,80511	50229,17296	1 11906,07587	9,65210,23604,9350	9,70095,60274	40:12
	15,59569,24251	21,85862	9,81297	15,08728,7760	18,89542	
68	44900,71258,04762	50251,03158	1 11915,88884	9,65225,32333,7110	9,70114,49816	40:48
	15,59432,46712	21,86246	9,81810	15,08072,5814	18,89052	
69	44916,30690,51474	50272,89404	1 11925,70694	9,65240,40406,2924	9,70133,38868	41:24
	15,59295,64423	21,86629	9,82324	15,07416,8425	18,88561	
70	44931,89986,15897	50294,76033	1 11935,53018	9,65255,47823,1349	9,70152,27429	42: 0
	15,59158,77383	21,87013	9,82837	15,06761,5586	18,88073	
71	44947,49144,93280	50316,63046	1 11945,35855	9,65270,54584,6935	9,70171,15502	42:36
	15,59021,85594	21,87398	9,83351	15,06106,7292	18,87583	
72	44963,08166,78874	50338,50444	1 11955,19206	9,65285,60691,4227	9,70190,03085	43:12
	15,58884,89056	21,87782	9,83865	15,05452,3538	18,87094	
73	44978,67051,67930	50360,38226	1 11965,03071	9,65300,66143,7765	9,70208,90179	43:48
	15,58747,87770	21,88166	9,84378	15,04798,4320	18,86607	
74	44994,25799,55700	50382,26392	1 11974,87449	9,65315,70942,2085	9,70227,76786	44:24
	15,58610,81735	21,88551	9,84893	15,04144,9632	18,86118	
75	45009,84410,37435	50404,14943	1 11984,72342	9,65330,75087,1717	9,70246,62904	45: 0
	15,58473,70953	21,88937	9,85408	15,03491,9468	18,85632	
76	45025,42884,08388	50426,03880	1 11994,57750	9,65345,78579,1185	9,70265,48536	45:36
	15,58336,55422	21,89321	9,85922	15,02839,3824	18,85145	
77	45041,01220,63810	50447,93201	1 12004,43672	9,65360,81418,5009	9,70284,33681	46:12
	15,58199,35146	21,89708	9,86437	15,02187,2695	18,84659	
78	45056,59419,98956	50469,82909	1 12014,30109	9,65375,83605,7704	9,70303,18340	46:48
	15,58062,10122	21,90093	9,86952	15,01535,6076	18,84173	
79	45072,17482,09078	50491,73002	1 12024,17061	9,65390,85141,3780	9,70322,02513	47:24
	15,57924,80353	21,90479	9,87467	15,00884,3961	18,83689	
80	45087,75406,89431	50513,63481	1 12034,04528	9,65405,86025,7741	9,70340,86202	48: 0
	15,57787,45837	21,90865	9,87983	15,00233,6346	18,83203	
81	45103,33194,35268	50535,54346	1 12043,92511	9,65420,86259,4087	9,70359,69405	48:36
	15,57650,06577	21,91252	9,88498	14,99583,3225	18,82719	
82	45118,90844,41845	50557,45598	1 12053,81009	9,65435,85842,7312	9,70378,52124	49:12
	15,57512,62571	21,91639	9,89014	14,98933,4594	18,82236	
83	45134,48357,04416	50579,37237	1 12063,70023	9,65450,84776,1906	9,70397,34360	49:48
	15,57375,13822	21,92026	9,89530	14,98284,0446	18,81752	
84	45150,05732,18238	50601,29263	1 12073,59553	9,65465,83060,2352	9,70416,16112	50:24
	15,57237,60328	21,92412	9,90047	14,97635,0779	18,81269	
85	45165,62969,78566	50623,21675	1 12083,49600	9,65480,80695,3131	9,70434,97381	51: 0
	15,57100,02090	21,92801	9,90562	14,96986,5585	18,80787	
86	45181,20069,80656	50645,14476	1 12093,40162	9,65495,77681,8716	9,70453,78168	51:36
	15,56962,39109	21,93188	9,91080	14,96338,4861	18,80305	
87	45196,77032,19765	50667,07664	1 12103,31242	9,65510,74020,3577	9,70472,58473	52:12
	15,56824,71386	21,93576	9,91596	14,95690,8602	18,79824	
88	45212,33856,91151	50689,01240	1 12113,22838	9,65525,69711,2179	9,70491,38297	52:48
	15,56686,98920	21,93964	9,92113	14,95043,6800	18,79343	
89	45227,90543,90071	50710,95204	1 12123,14951	9,65540,64754,8979	9,70510,17640	53:24
	15,56549,21712	21,94352	9,92631	14,94396,9454	18,78862	
90	45243,47093,11783	50732,89556	1 12133,07582	9,65555,59151,8433	9,70528,96502	54: 0
	15,56411,39762	21,94741	9,93147	14,93750,6557	18,78383	
91	45259,03504,51545	50754,84297	1 12143,00729	9,65570,52902,4990	9,70547,74885	54:36
	15,56273,53073	21,95130	9,93666	14,93104,8105	18,77903	
92	45274,59778,04618	50776,79427	1 12152,94395	9,65585,46007,3095	9,70566,52788	55:12
	15,56135,61641	21,95519	9,94183	14,92459,4090	18,77424	
93	45290,15913,66259	50798,74946	1 12162,88578	9,65600,38466,7185	9,70585,30212	55:48
	15,55997,65470	21,95909	9,94702	14,91814,4512	18,76945	
94	45305,71911,31729	50820,70855	1 12172,83280	9,65615,30281,1697	9,70604,07157	56:24
	15,55859,64558	21,96298	9,95219	14,91169,9361	18,76468	
95	45321,27770,96287	50842,67153	1 12182,78499	9,65630,21451,1058	9,70622,83625	57: 0
	15,55721,58908	21,96688	9,95738	14,90525,8636	18,75990	
96	45336,83492,55195	50864,63841	1 12192,74237	9,65645,11976,9694	9,70641,59615	57:36
	15,55583,48518	21,97078	9,96256	14,89882,2331	18,75512	
97	45352,39076,03713	50886,60919	1 12202,70493	9,65660,01859,2025	9,70660,35127	58:12
	15,55445,33391	21,97468	9,96776	14,89239,0439	18,75037	
98	45367,94521,37104	50908,58387	1 12212,67269	9,65674,91098,2464	9,70679,10164	58:48
	15,55307,13523	21,97858	9,97294	14,88596,2957	18,74560	
99	45383,49828,50627	50930,56245	1 12222,64563	9,65689,79694,5421	9,70697,84724	59:24
	15,55168,88920	21,98250	9,97813	14,87953,9880	18,74084	
100	45399,04997,39547	50952,54495	1 12232,62376	9,65704,67648,5301	9,70716,58808	60: 0
	15,55030,59578	21,98640	9,98333	14,87312,1202	18,73609	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	89360,65287,33200	1 99087,49062	2 22790,99829	9,95114,63330,9596	10,29904,39726	19:48
	7,83529,17492	86,60078	77,38362	3,80813,3728	18,89542	
32	89352,81758,15708	1 99000,88984	2 22713,61467	9,95110,82517,5868	10,29885,50184	19:12
	7,83801,35917	86,54063	77,32311	3,80979,0729	18,89052	
31	89344,97956,79791	1 98914,34921	2 22636,29156	9,95107,01538,5139	10,29866,61132	18:36
	7,84073,51953	86,48057	77,26266	3,81144,8019	18,88561	
30	89337,13883,27838	1 98827,86864	2 22559,02890	9,95103,20393,7120	10,29847,72571	18: 0
	7,84345,65603	86,42057	77,20227	3,81310,5602	18,88073	
29	89329,29537,62235	1 98741,44807	2 22481,82663	9,95099,39083,1518	10,29828,84498	17:24
	7,84617,76861	86,36064	77,14196	3,81476,3474	18,87583	
28	89321,44919,85374	1 98655,08743	2 22404,68467	9,95095,57606,8044	10,29809,96915	16:48
	7,84889,85731	86,30077	77,08172	3,81642,1639	18,87094	
27	89313,60029,99643	1 98568,78666	2 22327,60295	9,95091,75964,6405	10,29791,09821	16:12
	7,85161,92210	86,24098	77,02153	3,81808,0094	18,86607	
26	89305,74868,07433	1 98482,54568	2 22250,58142	9,95087,94156,6311	10,29772,23214	15:36
	7,85433,96296	86,18124	76,96142	3,81973,8841	18,86118	
25	89297,89434,11137	1 98396,36444	2 22173,62000	9,95084,12182,7470	10,29753,37096	15: 0
	7,85705,97990	86,12158	76,90138	3,82139,7881	18,85632	
24	89290,03728,13147	1 98310,24286	2 22096,71862	9,95080,30042,9589	10,29734,51464	14:24
	7,85977,97291	86,06199	76,84140	3,82305,7211	18,85145	
23	89282,17750,15856	1 98224,18087	2 22019,87722	9,95076,47737,2378	10,29715,66319	13:48
	7,86249,94197	86,00246	76,78149	3,82471,6835	18,84659	
22	89274,31500,21659	1 98138,17841	2 21943,09573	9,95072,65265,5543	10,29696,81660	13:12
	7,86521,88709	85,94299	76,72164	3,82637,6750	18,84173	
21	89266,44978,32950	1 98052,23542	2 21866,37409	9,95068,82627,8793	10,29677,97487	12:36
	7,86793,80825	85,88361	76,66186	3,82803,6959	18,83689	
20	89258,58184,52125	1 97966,35181	2 21789,71223	9,95064,99824,1834	10,29659,13798	12: 0
	7,87065,70543	85,82427	76,60215	3,82969,7459	18,83203	
19	89250,71118,81582	1 97880,52754	2 21713,11008	9,95061,16854,4375	10,29640,30595	11:24
	7,87337,57864	85,76501	76,54251	3,83135,8253	18,82719	
18	89242,83781,23718	1 97794,76253	2 21636,56757	9,95057,33718,6122	10,29621,47876	10:48
	7,87609,42787	85,70582	76,48293	3,83301,9339	18,82236	
17	89234,96171,80931	1 97709,05671	2 21560,08464	9,95053,50416,6783	10,29602,65640	10:12
	7,87881,25312	85,64669	76,42342	3,83468,0720	18,81752	
16	89227,08290,55619	1 97623,41002	2 21483,66122	9,95049,66948,6063	10,29583,83888	9:36
	7,88153,05434	85,58763	76,36397	3,83634,2393	18,81269	
15	89219,20137,50185	1 97537,82239	2 21407,29725	9,95045,83314,3670	10,29565,02619	9: 0
	7,88424,83158	85,52863	76,30459	3,83800,4360	18,80787	
14	89211,31712,67027	1 97452,29376	2 21330,99266	9,95041,99513,9310	10,29546,21832	8:24
	7,88696,58479	85,46970	76,24528	3,83966,6620	18,80305	
13	89203,43016,08548	1 97366,82406	2 21254,74738	9,95038,15547,2690	10,29527,41527	7:48
	7,88968,31397	85,41084	76,18603	3,84132,9176	18,79824	
12	89195,54047,77151	1 97281,41322	2 21178,56135	9,95034,31414,3514	10,29508,61703	7:12
	7,89240,01913	85,35205	76,12685	3,84299,2024	18,79343	
11	89187,64807,75238	1 97196,06117	2 21102,43450	9,95030,47115,1490	10,29489,82360	6:36
	7,89511,70024	85,29331	76,06773	3,84465,5167	18,78862	
10	89179,75296,05214	1 97110,76786	2 21026,36677	9,95026,62649,6323	10,29471,03498	6: 0
	7,89783,35730	85,23464	76,00868	3,84631,8605	18,78383	
9	89171,85512,69484	1 97025,53322	2 20950,35809	9,95022,78017,7718	10,29452,25115	5:24
	7,90054,99031	85,17605	75,94970	3,84798,2337	18,77903	
8	89163,95457,70453	1 96940,35717	2 20874,40839	9,95018,93219,5381	10,29433,47212	4:48
	7,90326,59924	85,11751	75,89077	3,84964,6364	18,77424	
7	89156,05131,10529	1 96855,23966	2 20798,51762	9,95015,08254,9017	10,29414,69788	4:12
	7,90598,18410	85,05904	75,83193	3,85131,0687	18,76945	
6	89148,14532,92119	1 96770,18062	2 20722,68569	9,95011,23123,8330	10,29395,92843	3:36
	7,90869,74489	85,00064	75,77313	3,85297,5304	18,76468	
5	89140,23663,17630	1 96685,17998	2 20646,91256	9,95007,37826,3026	10,29377,16375	3: 0
	7,91141,28157	84,94230	75,71441	3,85464,0216	18,75990	
4	89132,32521,89473	1 96600,23768	2 20571,19815	9,95003,52362,2810	10,29358,40385	2:24
	7,91412,79416	84,88403	75,65575	3,85630,5425	18,75512	
3	89124,41109,10057	1 96515,35365	2 20495,54240	9,94999,66731,7385	10,29339,64873	1:48
	7,91684,28264	84,82582	75,59715	3,85797,0930	18,75037	
2	89116,49424,81793	1 96430,52783	2 20419,94525	9,94995,80934,6455	10,29320,89836	1:12
	7,91955,74701	84,76768	75,53863	3,85963,6729	18,74560	
1	89108,57469,07092	1 96345,76015	2 20344,40662	9,94991,94970,9726	10,29302,15276	0:36
	7,92227,18724	84,70960	75,48016	3,86130,2825	18,74084	
0	89100,65241,88368	1 96261,05055	2 20268,92646	9,94988,08840,6901	10,29283,41192	0: 0
	7,92498,60336	84,65159	75,42176	3,86296,9218	18,73609	

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27. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
0	45399,04997,39547	50952,54495	1 12232,62376	9,65704,67648,5301	9,70716,58808	0: 0
	15,55030,59578	21,98640	9,98333	14,87312,1202	18,73609	
1	45414,60027,99125	50974,53135	1 12242,60709	9,65719,54960,6503	9,70735,32417	0:36
	15,54892,25500	21,99032	9,98853	14,86670,6920	18,73134	
2	45430,14920,24625	50996,52167	1 12252,59562	9,65734,41631,3423	9,70754,05551	1:12
	15,54753,86685	21,99423	9,99372	14,86029,7028	18,72660	
3	45445,69674,11310	51018,51590	1 12262,58934	9,65749,27661,0451	9,70772,78211	1:48
	15,54615,43134	21,99815	9,99892	14,85389,1520	18,72186	
4	45461,24289,54444	51040,51405	1 12272,58826	9,65764,13050,1971	9,70791,50397	2:24
	15,54476,94848	22,00207	10,00413	14,84749,0393	18,71713	
5	45476,78766,49292	51062,51612	1 12282,59239	9,65778,97799,2364	9,70810,22110	3: 0
	15,54338,41826	22,00600	10,00932	14,84109,3641	18,71240	
6	45492,33104,91118	51084,52212	1 12292,60171	9,65793,81908,6005	9,70828,93350	3:36
	15,54199,84069	22,00991	10,01454	14,83470,1259	18,70768	
7	45507,87304,75187	51106,53203	1 12302,61625	9,65808,65378,7264	9,70847,64118	4:12
	15,54061,21579	22,01384	10,01974	14,82831,3243	18,70295	
8	45523,41365,96766	51128,54587	1 12312,63599	9,65823,48210,0507	9,70866,34413	4:48
	15,53922,54354	22,01778	10,02495	14,82192,9588	18,69824	
9	45538,95288,51120	51150,56365	1 12322,66094	9,65838,30403,0095	9,70885,04237	5:24
	15,53783,82396	22,02170	10,03017	14,81555,0288	18,69353	
10	45554,49072,33516	51172,58535	1 12332,69111	9,65853,11958,0383	9,70903,73590	6: 0
	15,53645,05704	22,02564	10,03538	14,80917,5340	18,68883	
11	45570,02717,39220	51194,61099	1 12342,72649	9,65867,92875,5723	9,70922,42473	6:36
	15,53506,24280	22,02957	10,04059	14,80280,4738	18,68412	
12	45585,56223,63500	51216,64056	1 12352,76708	9,65882,73156,0461	9,70941,10885	7:12
	15,53367,38124	22,03351	10,04581	14,79643,8476	18,67943	
13	45601,09591,01624	51238,67407	1 12362,81289	9,65897,52799,8937	9,70959,78828	7:48
	15,53228,47236	22,03746	10,05103	14,79007,6552	18,67473	
14	45616,62819,48860	51260,71153	1 12372,86392	9,65912,31807,5489	9,70978,46301	8:24
	15,53089,51616	22,04140	10,05626	14,78371,8959	18,67005	
15	45632,15909,00476	51282,75293	1 12382,92018	9,65927,10179,4448	9,70997,13306	9: 0
	15,52950,51266	22,04534	10,06148	14,77736,5693	18,66537	
16	45647,68859,51742	51304,79827	1 12392,98166	9,65941,87916,0141	9,71015,79843	9:36
	15,52811,46184	22,04929	10,06670	14,77101,6749	18,66069	
17	45663,21670,97926	51326,84756	1 12403,04836	9,65956,65017,6890	9,71034,45912	10:12
	15,52672,36373	22,05324	10,07193	14,76467,2122	18,65601	
18	45678,74343,34299	51348,90080	1 12413,12029	9,65971,41484,9012	9,71053,11513	10:48
	15,52533,21833	22,05720	10,07716	14,75833,1809	18,65135	
19	45694,26876,56132	51370,95800	1 12423,19745	9,65986,17318,0821	9,71071,76648	11:24
	15,52394,02562	22,06115	10,08240	14,75199,5801	18,64668	
20	45709,79270,58694	51393,01915	1 12433,27985	9,66000,92517,6622	9,71090,41316	12: 0
	15,52254,78563	22,06511	10,08763	14,74566,4099	18,64203	
21	45725,31525,37257	51415,08426	1 12443,36748	9,66015,67084,0721	9,71109,05519	12:36
	15,52115,49836	22,06907	10,09286	14,73933,6693	18,63737	
22	45740,83640,87093	51437,15333	1 12453,46034	9,66030,41017,7414	9,71127,69256	13:12
	15,51976,16380	22,07303	10,09810	14,73301,3581	18,63272	
23	45756,35617,03473	51459,22636	1 12463,55844	9,66045,14319,0995	9,71146,32528	13:48
	15,51836,78197	22,07700	10,10335	14,72669,4758	18,62807	
24	45771,87453,81670	51481,30336	1 12473,66179	9,66059,86988,5753	9,71164,95335	14:24
	15,51697,35287	22,08097	10,10858	14,72038,0218	18,62343	
25	45787,39151,16957	51503,38433	1 12483,77037	9,66074,59026,5971	9,71183,57678	15: 0
	15,51557,87649	22,08493	10,11383	14,71406,9958	18,61880	
26	45802,90709,04606	51525,46926	1 12493,88420	9,66089,30433,5929	9,71202,19558	15:36
	15,51418,35287	22,08891	10,11908	14,70776,3973	18,61416	
27	45818,42127,39893	51547,55817	1 12504,00328	9,66104,01209,9902	9,71220,80974	16:12
	15,51278,78197	22,09289	10,12432	14,70146,2256	18,60954	
28	45833,93406,18090	51569,65106	1 12514,12760	9,66118,71356,2158	9,71239,41928	16:48
	15,51139,16382	22,09686	10,12958	14,69516,4805	18,60491	
29	45849,44545,34472	51591,74792	1 12524,25718	9,66133,40872,6963	9,71258,02419	17:24
	15,50999,49843	22,10084	10,13482	14,68887,1615	18,60030	
30	45864,95544,84315	51613,84876	1 12534,39200	9,66148,09759,8578	9,71276,62449	18: 0
	15,50859,78578	22,10482	10,14008	14,68258,2679	18,59568	
31	45880,46404,62893	51635,95358	1 12544,53208	9,66162,78018,1257	9,71295,22017	18:36
	15,50720,02590	22,10881	10,14534	14,67629,7995	18,59107	
32	45895,97124,65483	51658,06239	1 12554,67742	9,66177,45647,9252	9,71313,81124	19:12
	15,50580,21878	22,11279	10,15060	14,67001,7557	18,58647	
33	45911,47704,87361	51680,17518	1 12564,82802	9,66192,12649,6809	9,71332,39771	19:48
	15,50440,36441	22,11678	10,15585	14,66374,1360	18,58187	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
100	89100,65241,88368	1 96261,05055	2 20268,92646	9,94988,08840,6901	10,29283,41192	60: 0
	7,92498,60336	84,65159	75,42176	3,86296,9218	18,73609	
99	89092,72743,28032	1 96176,39896	2 20193,50470	9,94984,22543,7683	10,29264,67583	59:24
	7,92769,99532	84,59364	75,36343	3,86463,5906	18,73134	
98	89084,79973,28500	1 96091,80532	2 20118,14127	9,94980,36080,1777	10,29245,94449	58:48
	7,93041,36313	84,53575	75,30516	3,86630,2892	18,72660	
97	89076,86931,92187	1 96007,26957	2 20042,83611	9,94976,49449,8885	10,29227,21789	58:12
	7,93312,70680	84,47794	75,24695	3,86797,0175	18,72186	
96	89068,93619,21507	1 95922,79163	2 19967,58916	9,94972,62652,8710	10,29208,49603	57:36
	7,93584,02630	84,42018	75,18881	3,86963,7754	18,71713	
95	89061,00035,18877	1 95838,37145	2 19892,40035	9,94968,75689,0956	10,29189,77890	57: 0
	7,93855,32161	84,36249	75,13073	3,87130,5630	18,71240	
94	89053,06179,86716	1 95754,00896	2 19817,26962	9,94964,88558,5326	10,29171,06650	56:24
	7,94126,59275	84,30486	75,07271	3,87297,3805	18,70768	
93	89045,12053,27441	1 95669,70410	2 19742,19691	9,94961,01261,1521	10,29152,35882	55:48
	7,94397,83970	84,24731	75,01477	3,87464,2275	18,70295	
92	89037,17655,43471	1 95585,45679	2 19667,18214	9,94957,13796,9246	10,29133,65587	55:12
	7,94669,06245	84,18980	74,95688	3,87631,1046	18,69824	
91	89029,22986,37226	1 95501,26699	2 19592,22526	9,94953,26165,8200	10,29114,95763	54:36
	7,94940,26099	84,13237	74,89906	3,87798,0112	18,69353	
90	89021,28046,11127	1 95417,13462	2 19517,32620	9,94949,38367,8088	10,29096,26410	54: 0
	7,95211,43532	84,07500	74,84130	3,87964,9478	18,68883	
89	89013,32834,67595	1 95333,05962	2 19442,48490	9,94945,50402,8610	10,29077,57527	53:24
	7,95482,58543	84,01770	74,78361	3,88131,9141	18,68412	
88	89005,37352,09052	1 95249,04192	2 19367,70129	9,94941,62270,9469	10,29058,89115	52:48
	7,95753,71129	83,96045	74,72597	3,88298,9103	18,67943	
87	88997,41598,37923	1 95165,08147	2 19292,97532	9,94937,73972,0366	10,29040,21172	52:12
	7,96024,81292	83,90327	74,66841	3,88465,9364	18,67473	
86	88989,45573,56631	1 95081,17820	2 19218,30691	9,94933,85506,1002	10,29021,53699	51:36
	7,96295,89031	83,84616	74,61090	3,88632,9924	18,67005	
85	88981,49277,67600	1 94997,33204	2 19143,69601	9,94929,96873,1078	10,29002,86694	51: 0
	7,96566,94344	83,78911	74,55346	3,88800,0782	18,66537	
84	88973,52710,73256	1 94913,54293	2 19069,14255	9,94926,08073,0296	10,28984,20157	50:24
	7,96837,97229	83,73212	74,49608	3,88967,1939	18,66069	
83	88965,55872,76027	1 94829,81081	2 18994,64647	9,94922,19105,8357	10,28965,54088	49:48
	7,97108,97689	83,67519	74,43877	3,89134,3397	18,65601	
82	88957,58763,78338	1 94746,13562	2 18920,20770	9,94918,29971,4960	10,28946,88487	49:12
	7,97379,95719	83,61833	74,38151	3,89301,5153	18,65135	
81	88949,61383,82619	1 94662,51729	2 18845,82619	9,94914,40669,9807	10,28928,23352	48:36
	7,97650,91321	83,56153	74,32433	3,89468,7210	18,64668	
80	88941,63732,91298	1 94578,95576	2 18771,50186	9,94910,51201,2597	10,28909,58684	48: 0
	7,97921,84494	83,50479	74,26720	3,89635,9566	18,64203	
79	88933,65811,06804	1 94495,45097	2 18697,23466	9,94906,61565,3031	10,28890,94481	47:24
	7,98192,75234	83,44812	74,21013	3,89803,2223	18,63737	
78	88925,67618,31570	1 94412,00285	2 18623,02453	9,94902,71762,0808	10,28872,30744	46:48
	7,98463,63545	83,39151	74,15314	3,89970,5179	18,63272	
77	88917,69154,68025	1 94328,61134	2 18548,87139	9,94898,81791,5629	10,28853,67472	46:12
	7,98734,49422	83,33496	74,09619	3,90137,8436	18,62807	
76	88909,70420,18603	1 94245,27638	2 18474,77520	9,94894,91653,7193	10,28835,04665	45:36
	7,99005,32867	83,27847	74,03932	3,90305,1994	18,62343	
75	88901,71414,85736	1 94161,99791	2 18400,73588	9,94891,01348,5199	10,28816,42322	45: 0
	7,99276,13877	83,22205	73,98251	3,90472,5853	18,61880	
74	88893,72138,71859	1 94078,77586	2 18326,75337	9,94887,10875,9346	10,28797,80442	44:24
	7,99546,92454	83,16570	73,92575	3,90640,0012	18,61416	
73	88885,72591,79405	1 93995,61016	2 18252,82762	9,94883,20235,9334	10,28779,19026	43:48
	7,99817,68593	83,10939	73,86907	3,90807,4474	18,60954	
72	88877,72774,10812	1 93912,50077	2 18178,95855	9,94879,29428,4860	10,28760,58072	43:12
	8,00088,42298	83,05316	73,81243	3,90974,9235	18,60491	
71	88869,72685,68514	1 93829,44761	2 18105,14612	9,94875,38453,5625	10,28741,97581	42:36
	8,00359,13565	82,99698	73,75587	3,91142,4300	18,60030	
70	88861,72326,54949	1 93746,45063	2 18031,39025	9,94871,47311,1325	10,28723,37551	42: 0
	8,00629,82394	82,94087	73,69937	3,91309,9665	18,59568	
69	88853,71696,72555	1 93663,50976	2 17957,69088	9,94867,56001,1660	10,28704,77983	41:24
	8,00900,48783	82,88482	73,64293	3,91477,5332	18,59107	
68	88845,70796,23772	1 93580,62494	2 17884,04795	9,94863,64523,6328	10,28686,18876	40:48
	8,01171,12734	82,82883	73,58654	3,91645,1302	18,58647	
67	88837,69625,11038	1 93497,79611	2 17810,46141	9,94859,72878,5026	10,28667,60229	40:12
	8,01441,74243	82,77290	73,53023	3,91812,7574	18,58187	

GRAD. 62.

27. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	45911,47704,87361	51680,17518	1 12564,82802	9,66192,12649,6809	9,71332,39771	19:48
	15,50440,36441	22,11678	10,15585	14,66374,1360	18,58187	
34	45926,98145,23802	51702,29196	1 12574,98387	9,66206,79023,8169	9,71350,97958	20:24
	15,50300,46284	22,12078	10,16112	14,65746,9400	18,57727	
35	45942,48445,70086	51724,41274	1 12585,14499	9,66221,44770,7569	9,71369,55685	21: 0
	15,50160,51402	22,12477	10,16639	14,65120,1672	18,57269	
36	45957,98606,21488	51746,53751	1 12595,31138	9,66236,09890,9241	9,71388,12954	21:36
	15,50020,51799	22,12877	10,17165	14,64493,8173	18,56809	
37	45973,48626,73287	51768,66628	1 12605,48303	9,66250,74384,7414	9,71406,69763	22:12
	15,49880,47474	22,13276	10,17692	14,63867,8895	18,56352	
38	45988,98507,20761	51790,79904	1 12615,65995	9,66265,38252,6309	9,71425,26115	22:48
	15,49740,38429	22,13677	10,18219	14,63242,3836	18,55894	
39	46004,48247,59190	51812,93581	1 12625,84214	9,66280,01495,0145	9,71443,82009	23:24
	15,49600,24662	22,14077	10,18746	14,62617,2990	18,55436	
40	46019,97847,83852	51835,07658	1 12636,02960	9,66294,64112,3135	9,71462,37445	24: 0
	15,49460,06174	22,14478	10,19274	14,61992,6353	18,54980	
41	46035,47307,90026	51857,22136	1 12646,22234	9,66309,26104,9488	9,71480,92425	24:36
	15,49319,82968	22,14879	10,19801	14,61368,3921	18,54523	
42	46050,96627,72994	51879,37015	1 12656,42035	9,66323,87473,3409	9,71499,46948	25:12
	15,49179,55041	22,15279	10,20330	14,60744,5688	18,54067	
43	46066,45807,28035	51901,52294	1 12666,62365	9,66338,48217,9097	9,71518,01015	25:48
	15,49039,22396	22,15682	10,20857	14,60121,1651	18,53612	
44	46081,94846,50431	51923,67976	1 12676,83222	9,66353,08339,0748	9,71536,54627	26:24
	15,48898,85031	22,16082	10,21386	14,59498,1803	18,53157	
45	46097,43745,35462	51945,84058	1 12687,04608	9,66367,67837,2551	9,71555,07784	27: 0
	15,48758,42949	22,16485	10,21914	14,58875,6141	18,52702	
46	46112,92503,78411	51968,00543	1 12697,26522	9,66382,26712,8692	9,71573,60486	27:36
	15,48617,96149	22,16887	10,22443	14,58253,4662	18,52248	
47	46128,41121,74560	51990,17430	1 12707,48965	9,66396,84966,3354	9,71592,12734	28:12
	15,48477,44631	22,17289	10,22972	14,57631,7357	18,51795	
48	46143,89599,19191	52012,34719	1 12717,71937	9,66411,42598,0711	9,71610,64529	28:48
	15,48336,88397	22,17692	10,23501	14,57010,4226	18,51341	
49	46159,37936,07588	52034,52411	1 12727,95438	9,66425,99608,4937	9,71629,15870	29:24
	15,48196,27446	22,18095	10,24031	14,56389,5262	18,50888	
50	46174,86132,35034	52056,70506	1 12738,19469	9,66440,55998,0199	9,71647,66758	30: 0
	15,48055,61779	22,18497	10,24560	14,55769,0460	18,50437	
51	46190,34187,96813	52078,89003	1 12748,44029	9,66455,11767,0659	9,71666,17195	30:36
	15,47914,91396	22,18901	10,25089	14,55148,9818	18,49984	
52	46205,82102,88209	52101,07904	1 12758,69118	9,66469,66916,0477	9,71684,67179	31:12
	15,47774,16298	22,19305	10,25620	14,54529,3329	18,49533	
53	46221,29877,04507	52123,27209	1 12768,94738	9,66484,21445,3806	9,71703,16712	31:48
	15,47633,36485	22,19708	10,26150	14,53910,0988	18,49081	
54	46236,77510,40992	52145,46917	1 12779,20888	9,66498,75355,4794	9,71721,65793	32:24
	15,47492,51958	22,20113	10,26680	14,53291,2794	18,48632	
55	46252,25002,92950	52167,67030	1 12789,47568	9,66513,28646,7588	9,71740,14425	33: 0
	15,47351,62717	22,20517	10,27211	14,52672,8738	18,48181	
56	46267,72354,55667	52189,87547	1 12799,74779	9,66527,81319,6326	9,71758,62606	33:36
	15,47210,68763	22,20921	10,27742	14,52054,8820	18,47731	
57	46283,19565,24430	52212,08468	1 12810,02521	9,66542,33374,5146	9,71777,10337	34:12
	15,47069,70095	22,21326	10,28272	14,51437,3031	18,47282	
58	46298,66634,94525	52234,29794	1 12820,30793	9,66556,84811,8177	9,71795,57619	34:48
	15,46928,66714	22,21732	10,28804	14,50820,1369	18,46834	
59	46314,13563,61239	52256,51526	1 12830,59597	9,66571,35631,9546	9,71814,04453	35:24
	15,46787,58623	22,22136	10,29335	14,50203,3829	18,46385	
60	46329,60351,19862	52278,73662	1 12840,88932	9,66585,85835,3375	9,71832,50838	36: 0
	15,46646,45818	22,22542	10,29867	14,49587,0408	18,45937	
61	46345,06997,65680	52300,96204	1 12851,18799	9,66600,35422,3783	9,71850,96775	36:36
	15,46505,28302	22,22948	10,30399	14,48971,1099	18,45490	
62	46360,53502,93982	52323,19152	1 12861,49198	9,66614,84393,4882	9,71869,42265	37:12
	15,46364,06076	22,23354	10,30930	14,48355,5898	18,45043	
63	46375,99867,00058	52345,42506	1 12871,80128	9,66629,32749,0780	9,71887,87308	37:48
	15,46222,79139	22,23760	10,31463	14,47740,4802	18,44596	
64	46391,46089,79197	52367,66266	1 12882,11591	9,66643,80489,5582	9,71906,31904	38:24
	15,46081,47492	22,24167	10,31996	14,47125,7806	18,44150	
65	46406,92171,26689	52389,90433	1 12892,43587	9,66658,27615,3388	9,71924,76054	39: 0
	15,45940,11135	22,24574	10,32528	14,46511,4903	18,43704	
66	46422,38111,37824	52412,15007	1 12902,76115	9,66672,74126,8291	9,71943,19758	39:36
	15,45798,70069	22,24980	10,33061	14,45897,6094	18,43259	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	88837,69625,11038	1 93497,79611	2 17810,46141	9,94859,72878,5026	10,28667,60229	40:12
	8,01441,74243	82,77290	73,53023	3,91812,7574	18,58187	
66	88829,68183,36795	1 93415,02321	2 17736,93118	9,94855,81065,7452	10,28649,02042	39:36
	8,01712,33312	82,71704	73,47396	3,91980,4149	18,57727	
65	88821,66471,03483	1 93332,30617	2 17663,45722	9,94851,89085,3303	10,28630,44315	39: 0
	8,01982,89938	82,66124	73,41778	3,92148,1025	18,57269	
64	88813,64488,13545	1 93249,64493	2 17590,03944	9,94847,96937,2278	10,28611,87046	38:24
	8,02253,44122	82,60550	73,36163	3,92315,8206	18,56809	
63	88805,62234,69423	1 93167,03943	2 17516,67781	9,94844,04621,4072	10,28593,30237	37:48
	8,02523,95861	82,54981	73,30557	3,92483,5689	18,56352	
62	88797,59710,73562	1 93084,48962	2 17443,37224	9,94840,12137,8383	10,28574,73885	37:12
	8,02794,45156	82,49420	73,24955	3,92651,3474	18,55894	
61	88789,56916,28406	1 93001,99542	2 17370,12269	9,94836,19486,4909	10,28556,17991	36:36
	8,03064,92005	82,43863	73,19360	3,92819,1565	18,55436	
60	88781,53851,36401	1 92919,55679	2 17296,92909	9,94832,26667,3344	10,28537,62555	36: 0
	8,03335,36408	82,38314	73,13771	3,92986,9957	18,54980	
59	88773,50515,99993	1 92837,17365	2 17223,79138	9,94828,33680,3387	10,28519,07575	35:24
	8,03605,78364	82,32771	73,08189	3,93154,8655	18,54523	
58	88765,46910,21629	1 92754,84594	2 17150,70949	9,94824,40525,4732	10,28500,53052	34:48
	8,03876,17873	82,27233	73,02611	3,93322,7655	18,54067	
57	88757,43034,03756	1 92672,57361	2 17077,68338	9,94820,47202,7077	10,28481,98985	34:12
	8,04146,54931	82,21701	72,97040	3,93490,6961	18,53612	
56	88749,38887,48825	1 92590,35660	2 17004,71298	9,94816,53712,0116	10,28463,45373	33:36
	8,04416,89542	82,16177	72,91476	3,93658,6570	18,53157	
55	88741,34470,59283	1 92508,19483	2 16931,79822	9,94812,60053,3546	10,28444,92216	33: 0
	8,04687,21701	82,10657	72,85917	3,93826,6484	18,52702	
54	88733,29783,37582	1 92426,08826	2 16858,93905	9,94808,66226,7062	10,28426,39514	32:24
	8,04957,51409	82,05144	72,80365	3,93994,6703	18,52248	
53	88725,24825,86173	1 92344,03682	2 16786,13540	9,94804,72232,0359	10,28407,87266	31:48
	8,05227,78665	81,99636	72,74818	3,94162,7226	18,51795	
52	88717,19598,07508	1 92262,04046	2 16713,38722	9,94800,78069,3133	10,28389,35471	31:12
	8,05498,03468	81,94136	72,69277	3,94330,8055	18,51341	
51	88709,14100,04040	1 92180,09910	2 16640,69445	9,94796,83738,5078	10,28370,84130	30:36
	8,05768,25818	81,88640	72,63743	3,94498,9189	18,50888	
50	88701,08331,78222	1 92098,21270	2 16568,05702	9,94792,89239,5889	10,28352,33242	30: 0
	8,06038,45713	81,83152	72,58214	3,94667,0628	18,50437	
49	88693,02293,32509	1 92016,38118	2 16495,47488	9,94788,94572,5261	10,28333,82805	29:24
	8,06308,63153	81,77668	72,52692	3,94835,2373	18,49984	
48	88684,95984,69356	1 91934,60450	2 16422,94796	9,94784,99737,2888	10,28315,32821	28:48
	8,06578,78137	81,72192	72,47175	3,95003,4424	18,49533	
47	88676,89405,91219	1 91852,88258	2 16350,47621	9,94781,04733,8464	10,28296,83288	28:12
	8,06848,90663	81,66720	72,41665	3,95171,6781	18,49081	
46	88668,82557,00556	1 91771,21538	2 16278,05956	9,94777,09562,1683	10,28278,34207	27:36
	8,07119,00731	81,61255	72,36160	3,95339,9444	18,48632	
45	88660,75437,99825	1 91689,60283	2 16205,69796	9,94773,14222,2239	10,28259,85575	27: 0
	8,07389,08342	81,55797	72,30661	3,95508,2413	18,48181	
44	88652,68048,91483	1 91608,04486	2 16133,39135	9,94769,18713,9826	10,28241,37394	26:24
	8,07659,13493	81,50343	72,25169	3,95676,5689	18,47731	
43	88644,60389,77990	1 91526,54143	2 16061,13966	9,94765,23037,4137	10,28222,89663	25:48
	8,07929,16183	81,44896	72,19681	3,95844,9271	18,47282	
42	88636,52460,61807	1 91445,09247	2 15988,94285	9,94761,27192,4866	10,28204,42381	25:12
	8,08199,16412	81,39455	72,14201	3,96013,3161	18,46834	
41	88628,44261,45395	1 91363,69792	2 15916,80084	9,94757,31179,1705	10,28185,95547	24:36
	8,08469,14180	81,34019	72,08727	3,96181,7358	18,46385	
40	88620,35792,31215	1 91282,35773	2 15844,71357	9,94753,34997,4347	10,28167,49162	24: 0
	8,08739,09485	81,28591	72,03257	3,96350,1862	18,45937	
39	88612,27053,21730	1 91201,07182	2 15772,68100	9,94749,38647,2485	10,28149,03225	23:24
	8,09009,02326	81,23167	71,97794	3,96518,6673	18,45490	
38	88604,18044,19404	1 91119,84015	2 15700,70306	9,94745,42128,5812	10,28130,57735	22:48
	8,09278,92702	81,17749	71,92337	3,96687,1793	18,45043	
37	88596,08765,26702	1 91038,66266	2 15628,77969	9,94741,45441,4019	10,28112,12692	22:12
	8,09548,80614	81,12338	71,86886	3,96855,7220	18,44596	
36	88587,99216,46088	1 90957,53928	2 15556,91083	9,94737,48585,6799	10,28093,68096	21:36
	8,09818,66060	81,06933	71,81441	3,97024,2954	18,44150	
35	88579,89397,80028	1 90876,46995	2 15485,09642	9,94733,51561,3845	10,28075,23946	21: 0
	8,10088,49038	81,01533	71,76001	3,97192,8999	18,43704	
34	88571,79309,30990	1 90795,45462	2 15413,33641	9,94729,54368,4846	10,28056,80242	20:24
	8,10358,29549	80,96139	71,70567	3,97361,5349	18,43259	

GRAD. 62.

27. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	46437,83910,07893	52434,39987	1 12913,09176	9,66687,20024,4385	9,71961,63017	40:12
	15,45657,24295	22,25388	10,33594	14,45284,1368	18,42815	
68	46453,29567,32188	52456,65375	1 12923,42770	9,66701,65308,5753	9,71980,05832	40:48
	15,45515,73811	22,25796	10,34127	14,44671,0726	18,42370	
69	46468,75083,05999	52478,91171	1 12933,76897	9,66716,09979,6479	9,71998,48202	41:24
	15,45374,18621	22,26203	10,34661	14,44058,4161	18,41926	
70	46484,20457,24620	52501,17374	1 12944,11558	9,66730,54038,0640	9,72016,90128	42: 0
	15,45232,58722	22,26611	10,35194	14,43446,1667	18,41482	
71	46499,65689,83342	52523,43985	1 12954,46752	9,66744,97484,2307	9,72035,31610	42:36
	15,45090,94116	22,27019	10,35729	14,42834,3244	18,41040	
72	46515,10780,77458	52545,71004	1 12964,82481	9,66759,40318,5551	9,72053,72650	43:12
	15,44949,24805	22,27428	10,36262	14,42222,8884	18,40597	
73	46530,55730,02263	52567,98432	1 12975,18743	9,66773,82541,4435	9,72072,13247	43:48
	15,44807,50786	22,27837	10,36797	14,41611,8583	18,40154	
74	46546,00537,53049	52590,26269	1 12985,55540	9,66788,24153,3018	9,72090,53401	44:24
	15,44665,72062	22,28246	10,37332	14,41001,2338	18,39713	
75	46561,45203,25111	52612,54515	1 12995,92872	9,66802,65154,5356	9,72108,93114	45: 0
	15,44523,88633	22,28655	10,37866	14,40391,0144	18,39272	
76	46576,89727,13744	52634,83170	1 13006,30738	9,66817,05545,5500	9,72127,32386	45:36
	15,44382,00499	22,29064	10,38401	14,39781,1995	18,38831	
77	46592,34109,14243	52657,12234	1 13016,69139	9,66831,45326,7495	9,72145,71217	46:12
	15,44240,07660	22,29475	10,38937	14,39171,7890	18,38390	
78	46607,78349,21903	52679,41709	1 13027,08076	9,66845,84498,5385	9,72164,09607	46:48
	15,44098,10117	22,29884	10,39472	14,38562,7821	18,37951	
79	46623,22447,32020	52701,71593	1 13037,47548	9,66860,23061,3206	9,72182,47558	47:24
	15,43956,07871	22,30295	10,40007	14,37954,1786	18,37510	
80	46638,66403,39891	52724,01888	1 13047,87555	9,66874,61015,4992	9,72200,85068	48: 0
	15,43814,00922	22,30705	10,40543	14,37345,9779	18,37072	
81	46654,10217,40813	52746,32593	1 13058,28098	9,66888,98361,4771	9,72219,22140	48:36
	15,43671,89269	22,31115	10,41079	14,36738,1798	18,36633	
82	46669,53889,30082	52768,63708	1 13068,69177	9,66903,35099,6569	9,72237,58773	49:12
	15,43529,72915	22,31527	10,41616	14,36130,7836	18,36195	
83	46684,97419,02997	52790,95235	1 13079,10793	9,66917,71230,4405	9,72255,94968	49:48
	15,43387,51858	22,31938	10,42152	14,35523,7890	18,35757	
84	46700,40806,54855	52813,27173	1 13089,52945	9,66932,06754,2295	9,72274,30725	50:24
	15,43245,26101	22,32350	10,42689	14,34917,1955	18,35319	
85	46715,84051,80956	52835,59523	1 13099,95634	9,66946,41671,4250	9,72292,66044	51: 0
	15,43102,95642	22,32761	10,43225	14,34311,0028	18,34882	
86	46731,27154,76598	52857,92284	1 13110,38859	9,66960,75982,4278	9,72311,00926	51:36
	15,42960,60483	22,33173	10,43763	14,33705,2103	18,34446	
87	46746,70115,37081	52880,25457	1 13120,82622	9,66975,09687,6381	9,72329,35372	52:12
	15,42818,20623	22,33586	10,44299	14,33099,8177	18,34010	
88	46762,12933,57704	52902,59043	1 13131,26921	9,66989,42787,4558	9,72347,69382	52:48
	15,42675,76064	22,33998	10,44838	14,32494,8245	18,33574	
89	46777,55609,33768	52924,93041	1 13141,71759	9,67003,75282,2803	9,72366,02956	53:24
	15,42533,26805	22,34411	10,45375	14,31890,2301	18,33139	
90	46792,98142,60573	52947,27452	1 13152,17134	9,67018,07172,5104	9,72384,36095	54: 0
	15,42390,72849	22,34824	10,45913	14,31286,0345	18,32705	
91	46808,40533,33422	52969,62276	1 13162,63047	9,67032,38458,5449	9,72402,68800	54:36
	15,42248,14193	22,35237	10,46451	14,30682,2369	18,32269	
92	46823,82781,47615	52991,97513	1 13173,09498	9,67046,69140,7818	9,72421,01069	55:12
	15,42105,50839	22,35650	10,46990	14,30078,8370	18,31836	
93	46839,24886,98454	53014,33163	1 13183,56488	9,67060,99219,6188	9,72439,32905	55:48
	15,41962,82788	22,36065	10,47528	14,29475,8343	18,31402	
94	46854,66849,81242	53036,69228	1 13194,04016	9,67075,28695,4531	9,72457,64307	56:24
	15,41820,10040	22,36478	10,48067	14,28873,2284	18,30969	
95	46870,08669,91282	53059,05706	1 13204,52083	9,67089,57568,6815	9,72475,95276	57: 0
	15,41677,32595	22,36893	10,48606	14,28271,0191	18,30537	
96	46885,50347,23877	53081,42599	1 13215,00689	9,67103,85839,7006	9,72494,25813	57:36
	15,41534,50454	22,37307	10,49145	14,27669,2055	18,30104	
97	46900,91881,74331	53103,79906	1 13225,49834	9,67118,13508,9061	9,72512,55917	58:12
	15,41391,63617	22,37722	10,49685	14,27067,7877	18,29673	
98	46916,33273,37948	53126,17628	1 13235,99519	9,67132,40576,6938	9,72530,85590	58:48
	15,41248,72085	22,38136	10,50224	14,26466,7648	18,29241	
99	46931,74522,10033	53148,55764	1 13246,49743	9,67146,67043,4586	9,72549,14831	59:24
	15,41105,75858	22,38553	10,50764	14,25866,1367	18,28810	
100	46947,15627,85891	53170,94317	1 13257,00507	9,67160,92909,5953	9,72567,43641	60: 0
	15,40962,74936	22,38967	10,51304	14,25265,9028	18,28379	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	88563,68951,01441	1 90714,49323	2 15341,63074	9,94725,57006,9497	10,28038,36983	19:48
	8,10628,07592	80,90750	71,65140	3,97530,2011	18,42815	
32	88555,58322,93849	1 90633,58573	2 15269,97934	9,94721,59476,7486	10,28019,94168	19:12
	8,10897,83165	80,85369	71,59717	3,97698,8979	18,42370	
31	88547,47425,10684	1 90552,73204	2 15198,38217	9,94717,61777,8507	10,28001,51798	18:36
	8,11167,56268	80,79993	71,54302	3,97867,6258	18,41926	
30	88539,36257,54416	1 90471,93211	2 15126,83915	9,94713,63910,2249	10,27983,09872	18: 0
	8,11437,26900	80,74622	71,48892	3,98036,3845	18,41482	
29	88531,24820,27516	1 90391,18589	2 15055,35023	9,94709,65873,8404	10,27964,68390	17:24
	8,11706,95061	80,69258	71,43487	3,98205,1742	18,41040	
28	88523,13113,32455	1 90310,49331	2 14983,91536	9,94705,67668,6662	10,27946,27350	16:48
	8,11976,60748	80,63899	71,38088	3,98373,9948	18,40597	
27	88515,01136,71707	1 90229,85432	2 14912,53448	9,94701,69294,6714	10,27927,86753	16:12
	8,12246,23963	80,58546	71,32696	3,98542,8464	18,40154	
26	88506,88890,47744	1 90149,26886	2 14841,20752	9,94697,70751,8250	10,27909,46599	15:36
	8,12515,84702	80,53199	71,27309	3,98711,7290	18,39713	
25	88498,76374,63042	1 90068,73687	2 14769,93443	9,94693,72040,0960	10,27891,06886	15: 0
	8,12785,42968	80,47858	71,21928	3,98880,6427	18,39272	
24	88490,63589,20074	1 89988,25829	2 14698,71515	9,94689,73159,4533	10,27872,67614	14:24
	8,13054,98756	80,42522	71,16552	3,99049,5872	18,38831	
23	88482,50534,21318	1 89907,83307	2 14627,54963	9,94685,74109,8661	10,27854,28783	13:48
	8,13324,52070	80,37193	71,11183	3,99218,5630	18,38390	
22	88474,37209,69248	1 89827,46114	2 14556,43780	9,94681,74891,3031	10,27835,90393	13:12
	8,13594,02904	80,31869	71,05819	3,99387,5697	18,37951	
21	88466,23615,66344	1 89747,14245	2 14485,37961	9,94677,75503,7334	10,27817,52442	12:36
	8,13863,51260	80,26551	71,00460	3,99556,6076	18,37510	
20	88458,09752,15084	1 89666,87694	2 14414,37501	9,94673,75947,1258	10,27799,14932	12: 0
	8,14132,97138	80,21238	70,95109	3,99725,6765	18,37072	
19	88449,95619,17946	1 89586,66456	2 14343,42392	9,94669,76221,4493	10,27780,77860	11:24
	8,14402,40535	80,15932	70,89762	3,99894,7766	18,36633	
18	88441,81216,77411	1 89506,50524	2 14272,52630	9,94665,76326,6727	10,27762,41227	10:48
	8,14671,81452	80,10631	70,84421	4,00063,9078	18,36195	
17	88433,66544,95959	1 89426,39893	2 14201,68209	9,94661,76262,7649	10,27744,05032	10:12
	8,14941,19887	80,05336	70,79086	4,00233,0702	18,35757	
16	88425,51603,76072	1 89346,34557	2 14130,89123	9,94657,76029,6947	10,27725,69275	9:36
	8,15210,55839	80,00047	70,73756	4,00402,2637	18,35319	
15	88417,36393,20233	1 89266,34510	2 14060,15367	9,94653,75627,4310	10,27707,33956	9: 0
	8,15479,89308	79,94763	70,68433	4,00571,4886	18,34882	
14	88409,20913,30925	1 89186,39747	2 13989,46934	9,94649,75055,9424	10,27688,99074	8:24
	8,15749,20294	79,89485	70,63115	4,00740,7445	18,34446	
13	88401,05164,10631	1 89106,50262	2 13918,83819	9,94645,74315,1979	10,27670,64628	7:48
	8,16018,48793	79,84213	70,57803	4,00910,0317	18,34010	
12	88392,89145,61838	1 89026,66049	2 13848,26016	9,94641,73405,1662	10,27652,30618	7:12
	8,16287,74809	79,78947	70,52496	4,01079,3502	18,33574	
11	88384,72857,87029	1 88946,87102	2 13777,73520	9,94637,72325,8160	10,27633,97044	6:36
	8,16556,98336	79,73686	70,47195	4,01248,7000	18,33139	
10	88376,56300,88693	1 88867,13416	2 13707,26325	9,94633,71077,1160	10,27615,63905	6: 0
	8,16826,19376	79,68430	70,41900	4,01418,0811	18,32705	
9	88368,39474,69317	1 88787,44986	2 13636,84425	9,94629,69659,0349	10,27597,31200	5:24
	8,17095,37929	79,63182	70,36610	4,01587,4934	18,32269	
8	88360,22379,31388	1 88707,81804	2 13566,47815	9,94625,68071,5415	10,27578,98931	4:48
	8,17364,53992	79,57937	70,31326	4,01756,9371	18,31836	
7	88352,05014,77396	1 88628,23867	2 13496,16489	9,94621,66314,6044	10,27560,67095	4:12
	8,17633,67566	79,52700	70,26048	4,01926,4122	18,31402	
6	88343,87381,09830	1 88548,71167	2 13425,90441	9,94617,64388,1922	10,27542,35693	3:36
	8,17902,78648	79,47467	70,20775	4,02095,9186	18,30969	
5	88335,69478,31182	1 88469,23700	2 13355,69666	9,94613,62292,2736	10,27524,04724	3: 0
	8,18171,87240	79,42240	70,15509	4,02265,4564	18,30537	
4	88327,51306,43942	1 88389,81460	2 13285,54157	9,94609,60026,8172	10,27505,74187	2:24
	8,18440,93339	79,37020	70,10247	4,02435,0256	18,30104	
3	88319,32865,50603	1 88310,44440	2 13215,43910	9,94605,57591,7916	10,27487,44083	1:48
	8,18709,96945	79,31803	70,04991	4,02604,6263	18,29673	
2	88311,14155,53658	1 88231,12637	2 13145,38919	9,94601,54987,1653	10,27469,14410	1:12
	8,18978,98057	79,26594	69,99741	4,02774,2584	18,29241	
1	88302,95176,55601	1 88151,86043	2 13075,39178	9,94597,52212,9069	10,27450,85169	0:36
	8,19247,96674	79,21390	69,94496	4,02943,9220	18,28810	
0	88294,75928,58927	1 88072,64653	2 13005,44682	9,94593,49268,9849	10,27432,56359	0: 0
	8,19516,92796	79,16190	69,89257	4,03113,6171	18,28379	

GRAD. 62.

28. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
0	46947,15627,85891	53170,94317	1 13257,00507	9,67160,92909,5953	9,72567,43641	0: 0
	15,40962,74936	22,38967	10,51304	14,25265,9028	18,28379	
1	46962,56590,60827	53193,33284	1 13267,51811	9,67175,18175,4981	9,72585,72020	0:36
	15,40819,69321	22,39384	10,51845	14,24666,0628	18,27950	
2	46977,97410,30148	53215,72668	1 13278,03656	9,67189,42841,5609	9,72603,99970	1:12
	15,40676,59011	22,39799	10,52384	14,24066,6162	18,27519	
3	46993,38086,89159	53238,12467	1 13288,56040	9,67203,66908,1771	9,72622,27489	1:48
	15,40533,44009	22,40216	10,52926	14,23467,5626	18,27091	
4	47008,78620,33168	53260,52683	1 13299,08966	9,67217,90375,7397	9,72640,54580	2:24
	15,40390,24314	22,40632	10,53467	14,22868,9016	18,26661	
5	47024,19010,57482	53282,93315	1 13309,62433	9,67232,13244,6413	9,72658,81241	3: 0
	15,40246,99927	22,41049	10,54008	14,22270,6327	18,26234	
6	47039,59257,57409	53305,34364	1 13320,16441	9,67246,35515,2740	9,72677,07475	3:36
	15,40103,70847	22,41466	10,54549	14,21672,7555	18,25805	
7	47054,99361,28256	53327,75830	1 13330,70990	9,67260,57188,0295	9,72695,33280	4:12
	15,39960,37077	22,41884	10,55090	14,21075,2696	18,25377	
8	47070,39321,65333	53350,17714	1 13341,26080	9,67274,78263,2991	9,72713,58657	4:48
	15,39816,98614	22,42301	10,55633	14,20478,1747	18,24951	
9	47085,79138,63947	53372,60015	1 13351,81713	9,67288,98741,4738	9,72731,83608	5:24
	15,39673,55463	22,42718	10,56174	14,19881,4701	18,24524	
10	47101,18812,19410	53395,02733	1 13362,37887	9,67303,18622,9439	9,72750,08132	6: 0
	15,39530,07620	22,43137	10,56717	14,19285,1557	18,24097	
11	47116,58342,27030	53417,45870	1 13372,94604	9,67317,37908,0996	9,72768,32229	6:36
	15,39386,55088	22,43555	10,57259	14,18689,2308	18,23672	
12	47131,97728,82118	53439,89425	1 13383,51863	9,67331,56597,3304	9,72786,55901	7:12
	15,39242,97867	22,43974	10,57802	14,18093,6952	18,23246	
13	47147,36971,79985	53462,33399	1 13394,09665	9,67345,74691,0256	9,72804,79147	7:48
	15,39099,35957	22,44392	10,58345	14,17498,5484	18,22821	
14	47162,76071,15942	53484,77791	1 13404,68010	9,67359,92189,5740	9,72823,01968	8:24
	15,38955,69359	22,44811	10,58888	14,16903,7898	18,22396	
15	47178,15026,85301	53507,22602	1 13415,26898	9,67374,09093,3638	9,72841,24364	9: 0
	15,38811,98072	22,45231	10,59431	14,16309,4194	18,21973	
16	47193,53838,83373	53529,67833	1 13425,86329	9,67388,25402,7832	9,72859,46337	9:36
	15,38668,22098	22,45651	10,59974	14,15715,4364	18,21548	
17	47208,92507,05471	53552,13484	1 13436,46303	9,67402,41118,2196	9,72877,67885	10:12
	15,38524,41437	22,46070	10,60519	14,15121,8406	18,21125	
18	47224,31031,46908	53574,59554	1 13447,06822	9,67416,56240,0602	9,72895,89010	10:48
	15,38380,56090	22,46490	10,61062	14,14528,6315	18,20702	
19	47239,69412,02998	53597,06044	1 13457,67884	9,67430,70768,6917	9,72914,09712	11:24
	15,38236,66056	22,46911	10,61607	14,13935,8086	18,20280	
20	47255,07648,69054	53619,52955	1 13468,29491	9,67444,84704,5003	9,72932,29992	12: 0
	15,38092,71337	22,47331	10,62150	14,13343,3717	18,19857	
21	47270,45741,40391	53642,00286	1 13478,91641	9,67458,98047,8720	9,72950,49849	12:36
	15,37948,71932	22,47752	10,62696	14,12751,3202	18,19436	
22	47285,83690,12323	53664,48038	1 13489,54337	9,67473,10799,1922	9,72968,69285	13:12
	15,37804,67842	22,48173	10,63240	14,12159,6538	18,19015	
23	47301,21494,80165	53686,96211	1 13500,17577	9,67487,22958,8460	9,72986,88300	13:48
	15,37660,59068	22,48594	10,63786	14,11568,3720	18,18594	
24	47316,59155,39233	53709,44805	1 13510,81363	9,67501,34527,2180	9,73005,06894	14:24
	15,37516,45610	22,49016	10,64330	14,10977,4745	18,18173	
25	47331,96671,84843	53731,93821	1 13521,45693	9,67515,45504,6925	9,73023,25067	15: 0
	15,37372,27469	22,49438	10,64876	14,10386,9609	18,17753	
26	47347,34044,12312	53754,43259	1 13532,10569	9,67529,55891,6534	9,73041,42820	15:36
	15,37228,04644	22,49860	10,65422	14,09796,8305	18,17334	
27	47362,71272,16956	53776,93119	1 13542,75991	9,67543,65688,4839	9,73059,60154	16:12
	15,37083,77137	22,50283	10,65968	14,09207,0833	18,16914	
28	47378,08355,94093	53799,43402	1 13553,41959	9,67557,74895,5672	9,73077,77068	16:48
	15,36939,44947	22,50705	10,66514	14,08617,7187	18,16496	
29	47393,45295,39040	53821,94107	1 13564,08473	9,67571,83513,2859	9,73095,93564	17:24
	15,36795,08076	22,51128	10,67060	14,08028,7362	18,16077	
30	47408,82090,47116	53844,45235	1 13574,75533	9,67585,91542,0221	9,73114,09641	18: 0
	15,36650,66524	22,51551	10,67607	14,07440,1354	18,15659	
31	47424,18741,13640	53866,96786	1 13585,43140	9,67599,98982,1575	9,73132,25300	18:36
	15,36506,20289	22,51974	10,68154	14,06851,9162	18,15242	
32	47439,55247,33929	53889,48760	1 13596,11294	9,67614,05834,0737	9,73150,40542	19:12
	15,36361,69376	22,52399	10,68700	14,06264,0779	18,14825	
33	47454,91609,03305	53912,01159	1 13606,79994	9,67628,12098,1516	9,73168,55367	19:48
	15,36217,13782	22,52822	10,69248	14,05676,6200	18,14408	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
100	88294,75928,58927	1 88072,64653	2 13005,44682	9,94593,49268,9849	10,27432,56359	60: 0
	8,19516,92796	79,16190	69,89257	4,03113,6171	18,28379	
99	88286,56411,66131	1 87993,48463	2 12935,55425	9,94589,46155,3678	10,27414,27980	59:24
	8,19785,86421	79,10998	69,84024	4,03283,3436	18,27950	
98	88278,36625,79710	1 87914,37465	2 12865,71401	9,94585,42872,0242	10,27396,00030	58:48
	8,20054,77549	79,05811	69,78796	4,03453,1017	18,27519	
97	88270,16571,02161	1 87835,31654	2 12795,92605	9,94581,39418,9225	10,27377,72511	58:12
	8,20323,66179	79,00628	69,73574	4,03622,8913	18,27091	
96	88261,96247,35982	1 87756,31026	2 12726,19031	9,94577,35796,0312	10,27359,45420	57:36
	8,20592,52311	78,95452	69,68357	4,03792,7125	18,26661	
95	88253,75654,83671	1 87677,35574	2 12656,50674	9,94573,32003,3187	10,27341,18759	57: 0
	8,20861,35942	78,90281	69,63146	4,03962,5653	18,26234	
94	88245,54793,47729	1 87598,45293	2 12586,87528	9,94569,28040,7534	10,27322,92525	56:24
	8,21130,17073	78,85117	69,57941	4,04132,4497	18,25805	
93	88237,33663,30656	1 87519,60176	2 12517,29587	9,94565,23908,3037	10,27304,66720	55:48
	8,21398,95703	78,79956	69,52740	4,04302,3657	18,25377	
92	88229,12264,34953	1 87440,80220	2 12447,76847	9,94561,19605,9380	10,27286,41343	55:12
	8,21667,71830	78,74802	69,47545	4,04472,3133	18,24951	
91	88220,90596,63123	1 87362,05418	2 12378,29302	9,94557,15133,6247	10,27268,16392	54:36
	8,21936,45455	78,69654	69,42357	4,04642,2926	18,24524	
90	88212,68660,17668	1 87283,35764	2 12308,86945	9,94553,10491,3321	10,27249,91868	54: 0
	8,22205,16576	78,64511	69,37173	4,04812,3035	18,24097	
89	88204,46455,01092	1 87204,71253	2 12239,49772	9,94549,05679,0286	10,27231,67771	53:24
	8,22473,85193	78,59373	69,31995	4,04982,3463	18,23672	
88	88196,23981,15899	1 87126,11880	2 12170,17777	9,94545,00696,6823	10,27213,44099	52:48
	8,22742,51303	78,54242	69,26822	4,05152,4206	18,23246	
87	88188,01238,64596	1 87047,57638	2 12100,90955	9,94540,95544,2617	10,27195,20853	52:12
	8,23011,14908	78,49114	69,21655	4,05322,5268	18,22821	
86	88179,78227,49688	1 86969,08524	2 12031,69300	9,94536,90221,7349	10,27176,98032	51:36
	8,23279,76006	78,43994	69,16494	4,05492,6646	18,22396	
85	88171,54947,73682	1 86890,64530	2 11962,52806	9,94532,84729,0703	10,27158,75636	51: 0
	8,23548,34595	78,38878	69,11338	4,05662,8343	18,21973	
84	88163,31399,39087	1 86812,25652	2 11893,41468	9,94528,79066,2360	10,27140,53663	50:24
	8,23816,90677	78,33768	69,06187	4,05833,0357	18,21548	
83	88155,07582,48410	1 86733,91884	2 11824,35281	9,94524,73233,2003	10,27122,32115	49:48
	8,24085,44248	78,28664	69,01042	4,06003,2690	18,21125	
82	88146,83497,04162	1 86655,63220	2 11755,34239	9,94520,67229,9313	10,27104,10990	49:12
	8,24353,95310	78,23564	68,95902	4,06173,5340	18,20702	
81	88138,59143,08852	1 86577,39656	2 11686,38337	9,94516,61056,3973	10,27085,90288	48:36
	8,24622,43860	78,18471	68,90767	4,06343,8310	18,20280	
80	88130,34520,64992	1 86499,21185	2 11617,47570	9,94512,54712,5663	10,27067,70008	48: 0
	8,24890,89898	78,13383	68,85639	4,06514,1598	18,19857	
79	88122,09629,75094	1 86421,07802	2 11548,61931	9,94508,48198,4065	10,27049,50151	47:24
	8,25159,33424	78,08300	68,80516	4,06684,5206	18,19436	
78	88113,84470,41670	1 86342,99502	2 11479,81415	9,94504,41513,8859	10,27031,30715	46:48
	8,25427,74436	78,03222	68,75397	4,06854,9131	18,19015	
77	88105,59042,67234	1 86264,96280	2 11411,06018	9,94500,34658,9728	10,27013,11700	46:12
	8,25696,12933	77,98151	68,70285	4,07025,3376	18,18594	
76	88097,33346,54301	1 86186,98129	2 11342,35733	9,94496,27633,6352	10,26994,93106	45:36
	8,25964,48915	77,93084	68,65177	4,07195,7941	18,18173	
75	88089,07382,05386	1 86109,05045	2 11273,70556	9,94492,20437,8411	10,26976,74933	45: 0
	8,26232,82382	77,88023	68,60076	4,07366,2826	18,17753	
74	88080,81149,23004	1 86031,17022	2 11205,10480	9,94488,13071,5585	10,26958,57180	44:24
	8,26501,13332	77,82967	68,54979	4,07536,8031	18,17334	
73	88072,54648,09672	1 85953,34055	2 11136,55501	9,94484,05534,7554	10,26940,39846	43:48
	8,26769,41763	77,77917	68,49888	4,07707,3554	18,16914	
72	88064,27878,67909	1 85875,56138	2 11068,05613	9,94479,97827,4000	10,26922,22932	43:12
	8,27037,67677	77,72872	68,44803	4,07877,9399	18,16496	
71	88056,00841,00232	1 85797,83266	2 10999,60810	9,94475,89949,4601	10,26904,06436	42:36
	8,27305,91070	77,67833	68,39722	4,08048,5565	18,16077	
70	88047,73535,09162	1 85720,15433	2 10931,21088	9,94471,81900,9036	10,26885,90359	42: 0
	8,27574,11944	77,62798	68,34647	4,08219,2050	18,15659	
69	88039,45960,97218	1 85642,52635	2 10862,86441	9,94467,73681,6986	10,26867,74700	41:24
	8,27842,30298	77,57770	68,29577	4,08389,8857	18,15242	
68	88031,18118,66920	1 85564,94865	2 10794,56864	9,94463,65291,8129	10,26849,59458	40:48
	8,28110,46128	77,52746	68,24513	4,08560,5984	18,14825	
67	88022,90008,20792	1 85487,42119	2 10726,32351	9,94459,56731,2145	10,26831,44633	40:12
	8,28378,59438	77,47729	68,19455	4,08731,3434	18,14408	

GRAD. 61.

28. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	47454,91609,03305	53912,01159	1 13606,79994	9,67628,12098,1516	9,73168,55367	19:48
	15,36217,13782	22,52822	10,69248	14,05676,6200	18,14408	
34	47470,27826,17087	53934,53981	1 13617,49242	9,67642,17774,7716	9,73186,69775	20:24
	15,36072,53508	22,53246	10,69795	14,05089,5425	18,13992	
35	47485,63898,70595	53957,07227	1 13628,19037	9,67656,22864,3141	9,73204,83767	21: 0
	15,35927,88555	22,53671	10,70343	14,04502,8446	18,13575	
36	47500,99826,59150	53979,60898	1 13638,89380	9,67670,27367,1587	9,73222,97342	21:36
	15,35783,18923	22,54095	10,70891	14,03916,5261	18,13161	
37	47516,35609,78073	54002,14993	1 13649,60271	9,67684,31283,6848	9,73241,10503	22:12
	15,35638,44614	22,54520	10,71439	14,03330,5866	18,12745	
38	47531,71248,22687	54024,69513	1 13660,31710	9,67698,34614,2714	9,73259,23248	22:48
	15,35493,65627	22,54946	10,71988	14,02745,0255	18,12330	
39	47547,06741,88314	54047,24459	1 13671,03698	9,67712,37359,2969	9,73277,35578	23:24
	15,35348,81961	22,55371	10,72536	14,02159,8427	18,11917	
40	47562,42090,70275	54069,79830	1 13681,76234	9,67726,39519,1396	9,73295,47495	24: 0
	15,35203,93620	22,55796	10,73084	14,01575,0376	18,11502	
41	47577,77294,63895	54092,35626	1 13692,49318	9,67740,41094,1772	9,73313,58997	24:36
	15,35059,00601	22,56223	10,73634	14,00990,6098	18,11089	
42	47593,12353,64496	54114,91849	1 13703,22952	9,67754,42084,7870	9,73331,70086	25:12
	15,34914,02907	22,56649	10,74183	14,00406,5589	18,10676	
43	47608,47267,67403	54137,48498	1 13713,97135	9,67768,42491,3459	9,73349,80762	25:48
	15,34769,00536	22,57075	10,74732	13,99822,8847	18,10264	
44	47623,82036,67939	54160,05573	1 13724,71867	9,67782,42314,2306	9,73367,91026	26:24
	15,34623,93491	22,57502	10,75282	13,99239,5865	18,09851	
45	47639,16660,61430	54182,63075	1 13735,47149	9,67796,41553,8171	9,73386,00877	27: 0
	15,34478,81772	22,57930	10,75832	13,98656,6640	18,09440	
46	47654,51139,43202	54205,21005	1 13746,22981	9,67810,40210,4811	9,73404,10317	27:36
	15,34333,65377	22,58356	10,76382	13,98074,1170	18,09028	
47	47669,85473,08579	54227,79361	1 13756,99363	9,67824,38284,5981	9,73422,19345	28:12
	15,34188,44309	22,58784	10,76932	13,97491,9448	18,08617	
48	47685,19661,52888	54250,38145	1 13767,76295	9,67838,35776,5429	9,73440,27962	28:48
	15,34043,18567	22,59212	10,77483	13,96910,1473	18,08206	
49	47700,53704,71455	54272,97357	1 13778,53778	9,67852,32686,6902	9,73458,36168	29:24
	15,33897,88153	22,59639	10,78034	13,96328,7238	18,07797	
50	47715,87602,59608	54295,56996	1 13789,31812	9,67866,29015,4140	9,73476,43965	30: 0
	15,33752,53066	22,60068	10,78584	13,95747,6742	18,07386	
51	47731,21355,12674	54318,17064	1 13800,10396	9,67880,24763,0882	9,73494,51351	30:36
	15,33607,13307	22,60497	10,79136	13,95166,9978	18,06978	
52	47746,54962,25981	54340,77561	1 13810,89532	9,67894,19930,0860	9,73512,58329	31:12
	15,33461,68877	22,60926	10,79687	13,94586,6944	18,06568	
53	47761,88423,94858	54363,38487	1 13821,69219	9,67908,14516,7804	9,73530,64897	31:48
	15,33316,19774	22,61354	10,80239	13,94006,7637	18,06160	
54	47777,21740,14632	54385,99841	1 13832,49458	9,67922,08523,5441	9,73548,71057	32:24
	15,33170,66001	22,61784	10,80791	13,93427,2051	18,05751	
55	47792,54910,80633	54408,61625	1 13843,30249	9,67936,01950,7492	9,73566,76808	33: 0
	15,33025,07559	22,62213	10,81343	13,92848,0182	18,05344	
56	47807,87935,88192	54431,23838	1 13854,11592	9,67949,94798,7674	9,73584,82152	33:36
	15,32879,44446	22,62644	10,81895	13,92269,2027	18,04937	
57	47823,20815,32638	54453,86482	1 13864,93487	9,67963,87067,9701	9,73602,87089	34:12
	15,32733,76664	22,63073	10,82448	13,91690,7584	18,04529	
58	47838,53549,09302	54476,49555	1 13875,75935	9,67977,78758,7285	9,73620,91618	34:48
	15,32588,04212	22,63504	10,83001	13,91112,6844	18,04124	
59	47853,86137,13514	54499,13059	1 13886,58936	9,67991,69871,4129	9,73638,95742	35:24
	15,32442,27093	22,63935	10,83553	13,90534,9809	18,03717	
60	47869,18579,40607	54521,76994	1 13897,42489	9,68005,60406,3938	9,73656,99459	36: 0
	15,32296,45305	22,64365	10,84107	13,89957,6470	18,03311	
61	47884,50875,85912	54544,41359	1 13908,26596	9,68019,50364,0408	9,73675,02770	36:36
	15,32150,58849	22,64797	10,84660	13,89380,6827	18,02906	
62	47899,83026,44761	54567,06156	1 13919,11256	9,68033,39744,7235	9,73693,05676	37:12
	15,32004,67727	22,65228	10,85214	13,88804,0873	18,02501	
63	47915,15031,12488	54589,71384	1 13929,96470	9,68047,28548,8108	9,73711,08177	37:48
	15,31858,71937	22,65659	10,85768	13,88227,8607	18,02097	
64	47930,46889,84425	54612,37043	1 13940,82238	9,68061,16776,6715	9,73729,10274	38:24
	15,31712,71482	22,66092	10,86322	13,87652,0022	18,01692	
65	47945,78602,55907	54635,03135	1 13951,68560	9,68075,04428,6737	9,73747,11966	39: 0
	15,31566,66360	22,66524	10,86876	13,87076,5117	18,01289	
66	47961,10169,22267	54657,69659	1 13962,55436	9,68088,91505,1854	9,73765,13255	39:36
	15,31420,56573	22,66956	10,87431	13,86501,3887	18,00885	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	88022,90008,20792	1 85487,42119	2 10726,32351	9,94459,56731,2145	10,26831,44633	40:12
	8,28378,59438	77,47729	68,19455	4,08731,3434	18,14408	
66	88014,61629,61354	1 85409,94390	2 10658,12896	9,94455,47999,8711	10,26813,30225	39:36
	8,28646,70222	77,42715	68,14400	4,08902,1203	18,13992	
65	88006,32982,91132	1 85332,51675	2 10589,98496	9,94451,39097,7508	10,26795,16233	39: 0
	8,28914,78484	77,37708	68,09352	4,09072,9296	18,13575	
64	87998,04068,12648	1 85255,13967	2 10521,89144	9,94447,30024,8212	10,26777,02658	38:24
	8,29182,84219	77,32706	68,04310	4,09243,7709	18,13161	
63	87989,74885,28429	1 85177,81261	2 10453,84834	9,94443,20781,0503	10,26758,89497	37:48
	8,29450,87430	77,27710	67,99271	4,09414,6445	18,12745	
62	87981,45434,40999	1 85100,53551	2 10385,85563	9,94439,11366,4058	10,26740,76752	37:12
	8,29718,88113	77,22717	67,94239	4,09585,5502	18,12330	
61	87973,15715,52886	1 85023,30834	2 10317,91324	9,94435,01780,8556	10,26722,64422	36:36
	8,29986,86269	77,17732	67,89212	4,09756,4884	18,11917	
60	87964,85728,66617	1 84946,13102	2 10250,02112	9,94430,92024,3672	10,26704,52505	36: 0
	8,30254,81898	77,12751	67,84191	4,09927,4586	18,11502	
59	87956,55473,84719	1 84869,00351	2 10182,17921	9,94426,82096,9086	10,26686,41003	35:24
	8,30522,74995	77,07775	67,79173	4,10098,4611	18,11089	
58	87948,24951,09724	1 84791,92576	2 10114,38748	9,94422,71998,4475	10,26668,29914	34:48
	8,30790,65565	77,02805	67,74163	4,10269,4960	18,10676	
57	87939,94160,44159	1 84714,89771	2 10046,64585	9,94418,61728,9515	10,26650,19238	34:12
	8,31058,53603	76,97840	67,69156	4,10440,5633	18,10264	
56	87931,63101,90556	1 84637,91931	2 09978,95429	9,94414,51288,3882	10,26632,08974	33:36
	8,31326,39109	76,92881	67,64155	4,10611,6627	18,09851	
55	87923,31775,51447	1 84560,99050	2 09911,31274	9,94410,40676,7255	10,26613,99123	33: 0
	8,31594,22083	76,87926	67,59160	4,10782,7946	18,09440	
54	87915,00181,29364	1 84484,11124	2 09843,72114	9,94406,29893,9309	10,26595,89683	32:24
	8,31862,02524	76,82976	67,54170	4,10953,9589	18,09028	
53	87906,68319,26840	1 84407,28148	2 09776,17944	9,94402,18939,9720	10,26577,80655	31:48
	8,32129,80432	76,78033	67,49184	4,11125,1555	18,08617	
52	87898,36189,46408	1 84330,50115	2 09708,68760	9,94398,07814,8165	10,26559,72038	31:12
	8,32397,55803	76,73094	67,44205	4,11296,3846	18,08206	
51	87890,03791,90605	1 84253,77021	2 09641,24555	9,94393,96518,4319	10,26541,63832	30:36
	8,32665,28640	76,68161	67,39230	4,11467,6460	18,07797	
50	87881,71126,61965	1 84177,08860	2 09573,85325	9,94389,85050,7859	10,26523,56035	30: 0
	8,32932,98939	76,63232	67,34260	4,11638,9401	18,07386	
49	87873,38193,63026	1 84100,45628	2 09506,51065	9,94385,73411,8458	10,26505,48649	29:24
	8,33200,66703	76,58309	67,29297	4,11810,2665	18,06978	
48	87865,04992,96323	1 84023,87319	2 09439,21768	9,94381,61601,5793	10,26487,41671	28:48
	8,33468,31928	76,53391	67,24337	4,11981,6254	18,06568	
47	87856,71524,64395	1 83947,33928	2 09371,97431	9,94377,49619,9539	10,26469,35103	28:12
	8,33735,94613	76,48479	67,19383	4,12153,0168	18,06160	
46	87848,37788,69782	1 83870,85449	2 09304,78048	9,94373,37466,9371	10,26451,28943	27:36
	8,34003,54759	76,43571	67,14435	4,12324,4408	18,05751	
45	87840,03785,15023	1 83794,41878	2 09237,63613	9,94369,25142,4963	10,26433,23192	27: 0
	8,34271,12365	76,38669	67,09491	4,12495,8973	18,05344	
44	87831,69514,02658	1 83718,03209	2 09170,54122	9,94365,12646,5990	10,26415,17848	26:24
	8,34538,67429	76,33772	67,04553	4,12667,3865	18,04937	
43	87823,34975,35229	1 83641,69437	2 09103,49569	9,94360,99979,2125	10,26397,12911	25:48
	8,34806,19952	76,28880	66,99619	4,12838,9081	18,04529	
42	87815,00169,15277	1 83565,40557	2 09036,49950	9,94356,87140,3044	10,26379,08382	25:12
	8,35073,69930	76,23993	66,94692	4,13010,4624	18,04124	
41	87806,65095,45347	1 83489,16564	2 08969,55258	9,94352,74129,8420	10,26361,04258	24:36
	8,35341,17366	76,19112	66,89769	4,13182,0494	18,03717	
40	87798,29754,27981	1 83412,97452	2 08902,65489	9,94348,60947,7926	10,26343,00541	24: 0
	8,35608,62257	76,14235	66,84850	4,13353,6690	18,03311	
39	87789,94145,65724	1 83336,83217	2 08835,80639	9,94344,47594,1236	10,26324,97230	23:24
	8,35876,04602	76,09364	66,79939	4,13525,3212	18,02906	
38	87781,58269,61122	1 83260,73853	2 08769,00700	9,94340,34068,8024	10,26306,94324	22:48
	8,36143,44402	76,04498	66,75030	4,13697,0062	18,02501	
37	87773,22126,16720	1 83184,69355	2 08702,25670	9,94336,20371,7962	10,26288,91823	22:12
	8,36410,81653	75,99637	66,70128	4,13868,7238	18,02097	
36	87764,85715,35067	1 83108,69718	2 08635,55542	9,94332,06503,0724	10,26270,89726	21:36
	8,36678,16358	75,94781	66,65231	4,14040,4743	18,01692	
35	87756,49037,18709	1 83032,74937	2 08568,90311	9,94327,92462,5981	10,26252,88034	21: 0
	8,36945,48513	75,89930	66,60339	4,14212,2574	18,01289	
34	87748,12091,70196	1 82956,85007	2 08502,29972	9,94323,78250,3407	10,26234,86745	20:24
	8,37212,78119	75,85084	66,55451	4,14384,0733	18,00885	

GRAD. 61.

28. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	47976,41589,78840	54680,36615	1 13973,42867	9,68102,78006,5741	9,73783,14140	40:12
	15,31274,42121	22,67389	10,87985	13,85926,6327	18,00483	
68	47991,72864,20961	54703,04004	1 13984,30852	9,68116,63933,2068	9,73801,14623	40:48
	15,31128,23004	22,67822	10,88541	13,85352,2435	18,00080	
69	48007,03992,43965	54725,71826	1 13995,19393	9,68130,49285,4503	9,73819,14703	41:24
	15,30981,99224	22,68256	10,89096	13,84778,2206	17,99678	
70	48022,34974,43189	54748,40082	1 14006,08489	9,68144,34063,6709	9,73837,14381	42: 0
	15,30835,70780	22,68688	10,89651	13,84204,5637	17,99276	
71	48037,65810,13969	54771,08770	1 14016,98140	9,68158,18268,2346	9,73855,13657	42:36
	15,30689,37672	22,69123	10,90207	13,83631,2723	17,98875	
72	48052,96499,51641	54793,77893	1 14027,88347	9,68172,01899,5069	9,73873,12532	43:12
	15,30542,99902	22,69557	10,90763	13,83058,3460	17,98474	
73	48068,27042,51543	54816,47450	1 14038,79110	9,68185,84957,8529	9,73891,11006	43:48
	15,30396,57469	22,69991	10,91319	13,82485,7847	17,98073	
74	48083,57439,09012	54839,17441	1 14049,70429	9,68199,67443,6376	9,73909,09079	44:24
	15,30250,10376	22,70425	10,91876	13,81913,5876	17,97674	
75	48098,87689,19388	54861,87866	1 14060,62305	9,68213,49357,2252	9,73927,06753	45: 0
	15,30103,58619	22,70861	10,92432	13,81341,7546	17,97274	
76	48114,17792,78007	54884,58727	1 14071,54737	9,68227,30698,9798	9,73945,04027	45:36
	15,29957,02203	22,71295	10,92989	13,80770,2854	17,96874	
77	48129,47749,80210	54907,30022	1 14082,47726	9,68241,11469,2652	9,73963,00901	46:12
	15,29810,41126	22,71731	10,93546	13,80199,1792	17,96475	
78	48144,77560,21336	54930,01753	1 14093,41272	9,68254,91668,4444	9,73980,97376	46:48
	15,29663,75388	22,72167	10,94103	13,79628,4361	17,96077	
79	48160,07223,96724	54952,73920	1 14104,35375	9,68268,71296,8805	9,73998,93453	47:24
	15,29517,04991	22,72602	10,94661	13,79058,0554	17,95679	
80	48175,36741,01715	54975,46522	1 14115,30036	9,68282,50354,9359	9,74016,89132	48: 0
	15,29370,29936	22,73038	10,95218	13,78488,0368	17,95281	
81	48190,66111,31651	54998,19560	1 14126,25254	9,68296,28842,9727	9,74034,84413	48:36
	15,29223,50220	22,73475	10,95777	13,77918,3800	17,94883	
82	48205,95334,81871	55020,93035	1 14137,21031	9,68310,06761,3527	9,74052,79296	49:12
	15,29076,65848	22,73912	10,96335	13,77349,0845	17,94487	
83	48221,24411,47719	55043,66947	1 14148,17366	9,68323,84110,4372	9,74070,73783	49:48
	15,28929,76816	22,74349	10,96893	13,76780,1501	17,94090	
84	48236,53341,24535	55066,41296	1 14159,14259	9,68337,60890,5873	9,74088,67873	50:24
	15,28782,83128	22,74785	10,97451	13,76211,5762	17,93694	
85	48251,82124,07663	55089,16081	1 14170,11710	9,68351,37102,1635	9,74106,61567	51: 0
	15,28635,84783	22,75224	10,98011	13,75643,3625	17,93298	
86	48267,10759,92446	55111,91305	1 14181,09721	9,68365,12745,5260	9,74124,54865	51:36
	15,28488,81781	22,75661	10,98570	13,75075,5088	17,92903	
87	48282,39248,74227	55134,66966	1 14192,08291	9,68378,87821,0348	9,74142,47768	52:12
	15,28341,74124	22,76099	10,99129	13,74508,0145	17,92508	
88	48297,67590,48351	55157,43065	1 14203,07420	9,68392,62329,0493	9,74160,40276	52:48
	15,28194,61810	22,76537	10,99688	13,73940,8793	17,92113	
89	48312,95785,10161	55180,19602	1 14214,07108	9,68406,36269,9286	9,74178,32389	53:24
	15,28047,44841	22,76976	11,00248	13,73374,1028	17,91719	
90	48328,23832,55002	55202,96578	1 14225,07356	9,68420,09644,0314	9,74196,24108	54: 0
	15,27900,23219	22,77415	11,00809	13,72807,6846	17,91326	
91	48343,51732,78221	55225,73993	1 14236,08165	9,68433,82451,7160	9,74214,15434	54:36
	15,27752,96940	22,77853	11,01368	13,72241,6246	17,90931	
92	48358,79485,75161	55248,51846	1 14247,09533	9,68447,54693,3406	9,74232,06365	55:12
	15,27605,66010	22,78293	11,01930	13,71675,9220	17,90539	
93	48374,07091,41171	55271,30139	1 14258,11463	9,68461,26369,2626	9,74249,96904	55:48
	15,27458,30425	22,78733	11,02489	13,71110,5766	17,90146	
94	48389,34549,71596	55294,08872	1 14269,13952	9,68474,97479,8392	9,74267,87050	56:24
	15,27310,90187	22,79173	11,03051	13,70545,5882	17,89754	
95	48404,61860,61783	55316,88045	1 14280,17003	9,68488,68025,4274	9,74285,76804	57: 0
	15,27163,45298	22,79612	11,03612	13,69980,9563	17,89362	
96	48419,89024,07081	55339,67657	1 14291,20615	9,68502,38006,3837	9,74303,66166	57:36
	15,27015,95755	22,80053	11,04173	13,69416,6804	17,88971	
97	48435,16040,02836	55362,47710	1 14302,24788	9,68516,07423,0641	9,74321,55137	58:12
	15,26868,41562	22,80494	11,04735	13,68852,7603	17,88579	
98	48450,42908,44398	55385,28204	1 14313,29523	9,68529,76275,8244	9,74339,43716	58:48
	15,26720,82717	22,80935	11,05297	13,68289,1955	17,88189	
99	48465,69629,27115	55408,09139	1 14324,34820	9,68543,44565,0199	9,74357,31905	59:24
	15,26573,19222	22,81376	11,05859	13,67725,9858	17,87799	
100	48480,96202,46337	55430,90515	1 14335,40679	9,68557,12291,0057	9,74375,19704	60: 0
	15,26425,51076	22,81817	11,06421	13,67163,1307	17,87408	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	87739,74878,92077	1 82880,99923	2 08435,74521	9,94319,63866,2674	10,26216,85860	19:48
	8,37480,05176	75,80244	66,50570	4,14555,9220	18,00483	
32	87731,37398,86901	1 82805,19679	2 08369,23951	9,94315,49310,3454	10,26198,85377	19:12
	8,37747,29680	75,75408	66,45692	4,14727,8035	18,00080	
31	87722,99651,57221	1 82729,44271	2 08302,78259	9,94311,34582,5419	10,26180,85297	18:36
	8,38014,51632	75,70578	66,40821	4,14899,7179	17,99678	
30	87714,61637,05589	1 82653,73693	2 08236,37438	9,94307,19682,8240	10,26162,85619	18: 0
	8,38281,71033	75,65752	66,35954	4,15071,6651	17,99276	
29	87706,23355,34556	1 82578,07941	2 08170,01484	9,94303,04611,1589	10,26144,86343	17:24
	8,38548,87879	75,60933	66,31092	4,15243,6452	17,98875	
28	87697,84806,46677	1 82502,47008	2 08103,70392	9,94298,89367,5137	10,26126,87468	16:48
	8,38816,02172	75,56117	66,26235	4,15415,6581	17,98474	
27	87689,45990,44505	1 82426,90891	2 08037,44157	9,94294,73951,8556	10,26108,88994	16:12
	8,39083,13908	75,51307	66,21383	4,15587,7040	17,98073	
26	87681,06907,30597	1 82351,39584	2 07971,22774	9,94290,58364,1516	10,26090,90921	15:36
	8,39350,23089	75,46502	66,16537	4,15759,7828	17,97674	
25	87672,67557,07508	1 82275,93082	2 07905,06237	9,94286,42604,3688	10,26072,93247	15: 0
	8,39617,29714	75,41701	66,11696	4,15931,8946	17,97274	
24	87664,27939,77794	1 82200,51381	2 07838,94541	9,94282,26672,4742	10,26054,95973	14:24
	8,39884,33780	75,36907	66,06858	4,16104,0393	17,96874	
23	87655,88055,44014	1 82125,14474	2 07772,87683	9,94278,10568,4349	10,26036,99099	13:48
	8,40151,35288	75,32117	66,02027	4,16276,2170	17,96475	
22	87647,47904,08726	1 82049,82357	2 07706,85656	9,94273,94292,2179	10,26019,02624	13:12
	8,40418,34237	75,27332	65,97201	4,16448,4277	17,96077	
21	87639,07485,74489	1 81974,55025	2 07640,88455	9,94269,77843,7902	10,26001,06547	12:36
	8,40685,30625	75,22552	65,92379	4,16620,6715	17,95679	
20	87630,66800,43864	1 81899,32473	2 07574,96076	9,94265,61223,1187	10,25983,10868	12: 0
	8,40952,24454	75,17777	65,87562	4,16792,9483	17,95281	
19	87622,25848,19410	1 81824,14696	2 07509,08514	9,94261,44430,1704	10,25965,15587	11:24
	8,41219,15720	75,13008	65,82750	4,16965,2581	17,94883	
18	87613,84629,03690	1 81749,01688	2 07443,25764	9,94257,27464,9123	10,25947,20704	10:48
	8,41486,04423	75,08242	65,77944	4,17137,6011	17,94487	
17	87605,43142,99267	1 81673,93446	2 07377,47820	9,94253,10327,3112	10,25929,26217	10:12
	8,41752,90564	75,03482	65,73143	4,17309,9772	17,94090	
16	87597,01390,08703	1 81598,89964	2 07311,74677	9,94248,93017,3340	10,25911,32127	9:36
	8,42019,74141	74,98728	65,68345	4,17482,3864	17,93694	
15	87588,59370,34562	1 81523,91236	2 07246,06332	9,94244,75534,9476	10,25893,38433	9: 0
	8,42286,55151	74,93977	65,63554	4,17654,8288	17,93298	
14	87580,17083,79411	1 81448,97259	2 07180,42778	9,94240,57880,1188	10,25875,45135	8:24
	8,42553,33598	74,89232	65,58767	4,17827,3043	17,92903	
13	87571,74530,45813	1 81374,08027	2 07114,84011	9,94236,40052,8145	10,25857,52232	7:48
	8,42820,09476	74,84493	65,53986	4,17999,8130	17,92508	
12	87563,31710,36337	1 81299,23534	2 07049,30025	9,94232,22053,0015	10,25839,59724	7:12
	8,43086,82788	74,79757	65,49208	4,18172,3549	17,92113	
11	87554,88623,53549	1 81224,43777	2 06983,80817	9,94228,03880,6466	10,25821,67611	6:36
	8,43353,53531	74,75027	65,44436	4,18344,9300	17,91719	
10	87546,45270,00018	1 81149,68750	2 06918,36381	9,94223,85535,7166	10,25803,75892	6: 0
	8,43620,21706	74,70302	65,39670	4,18517,5385	17,91326	
9	87538,01649,78312	1 81074,98448	2 06852,96711	9,94219,67018,1781	10,25785,84566	5:24
	8,43886,87310	74,65582	65,34907	4,18690,1802	17,90931	
8	87529,57762,91002	1 81000,32866	2 06787,61804	9,94215,48327,9979	10,25767,93635	4:48
	8,44153,50345	74,60866	65,30150	4,18862,8551	17,90539	
7	87521,13609,40657	1 80925,72000	2 06722,31654	9,94211,29465,1428	10,25750,03096	4:12
	8,44420,10807	74,56156	65,25397	4,19035,5634	17,90146	
6	87512,69189,29850	1 80851,15844	2 06657,06257	9,94207,10429,5794	10,25732,12950	3:36
	8,44686,68698	74,51450	65,20650	4,19208,3050	17,89754	
5	87504,24502,61152	1 80776,64394	2 06591,85607	9,94202,91221,2744	10,25714,23196	3: 0
	8,44953,24014	74,46750	65,15908	4,19381,0800	17,89362	
4	87495,79549,37138	1 80702,17644	2 06526,69699	9,94198,71840,1944	10,25696,33834	2:24
	8,45219,76758	74,42054	65,11170	4,19553,8883	17,88971	
3	87487,34329,60380	1 80627,75590	2 06461,58529	9,94194,52286,3061	10,25678,44863	1:48
	8,45486,26927	74,37364	65,06437	4,19726,7301	17,88579	
2	87478,88843,33453	1 80553,38226	2 06396,52092	9,94190,32559,5760	10,25660,56284	1:12
	8,45752,74520	74,32677	65,01710	4,19899,6051	17,88189	
1	87470,43090,58933	1 80479,05549	2 06331,50382	9,94186,12659,9709	10,25642,68095	0:36
	8,46019,19537	74,27996	64,96986	4,20072,5138	17,87799	
0	87461,97071,39396	1 80404,77553	2 06266,53396	9,94181,92587,4571	10,25624,80296	0: 0
	8,46285,61977	74,23320	64,92268	4,20245,4557	17,87408	

GRAD. 61.

29. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
0	48480,96202,46337	55430,90515	1 14335,40679	9,68557,12291,0057	9,74375,19704	0: 0
	15,26425,51076	22,81817	11,06421	13,67163,1307	17,87408	
1	48496,22627,97413	55453,72332	1 14346,47100	9,68570,79454,1364	9,74393,07112	0:36
	15,26277,78281	22,82259	11,06984	13,66600,6298	17,87019	
2	48511,48905,75694	55476,54591	1 14357,54084	9,68584,46054,7662	9,74410,94131	1:12
	15,26130,00837	22,82701	11,07546	13,66038,4829	17,86630	
3	48526,75035,76531	55499,37292	1 14368,61630	9,68598,12093,2491	9,74428,80761	1:48
	15,25982,18743	22,83143	11,08110	13,65476,6895	17,86241	
4	48542,01017,95274	55522,20435	1 14379,69740	9,68611,77569,9386	9,74446,67002	2:24
	15,25834,32001	22,83586	11,08672	13,64915,2491	17,85853	
5	48557,26852,27275	55545,04021	1 14390,78412	9,68625,42485,1877	9,74464,52855	3: 0
	15,25686,40612	22,84029	11,09236	13,64354,1618	17,85465	
6	48572,52538,67887	55567,88050	1 14401,87648	9,68639,06839,3495	9,74482,38320	3:36
	15,25538,44574	22,84472	11,09800	13,63793,4267	17,85077	
7	48587,78077,12461	55590,72522	1 14412,97448	9,68652,70632,7762	9,74500,23397	4:12
	15,25390,43889	22,84915	11,10364	13,63233,0436	17,84690	
8	48603,03467,56350	55613,57437	1 14424,07812	9,68666,33865,8198	9,74518,08087	4:48
	15,25242,38559	22,85358	11,10928	13,62673,0124	17,84303	
9	48618,28709,94909	55636,42795	1 14435,18740	9,68679,96538,8322	9,74535,92390	5:24
	15,25094,28581	22,85803	11,11492	13,62113,3325	17,83917	
10	48633,53804,23490	55659,28598	1 14446,30232	9,68693,58652,1647	9,74553,76307	6: 0
	15,24946,13959	22,86247	11,12057	13,61554,0034	17,83531	
11	48648,78750,37449	55682,14845	1 14457,42289	9,68707,20206,1681	9,74571,59838	6:36
	15,24797,94691	22,86691	11,12622	13,60995,0250	17,83145	
12	48664,03548,32140	55705,01536	1 14468,54911	9,68720,81201,1931	9,74589,42983	7:12
	15,24649,70778	22,87136	11,13187	13,60436,3968	17,82760	
13	48679,28198,02918	55727,88672	1 14479,68098	9,68734,41637,5899	9,74607,25743	7:48
	15,24501,42220	22,87580	11,13752	13,59878,1186	17,82375	
14	48694,52699,45138	55750,76252	1 14490,81850	9,68748,01515,7085	9,74625,08118	8:24
	15,24353,09020	22,88026	11,14318	13,59320,1898	17,81990	
15	48709,77052,54158	55773,64278	1 14501,96168	9,68761,60835,8983	9,74642,90108	9: 0
	15,24204,71174	22,88472	11,14884	13,58762,6101	17,81606	
16	48725,01257,25332	55796,52750	1 14513,11052	9,68775,19598,5084	9,74660,71714	9:36
	15,24056,28688	22,88917	11,15450	13,58205,3793	17,81223	
17	48740,25313,54020	55819,41667	1 14524,26502	9,68788,77803,8877	9,74678,52937	10:12
	15,23907,81557	22,89363	11,16015	13,57648,4969	17,80839	
18	48755,49221,35577	55842,31030	1 14535,42517	9,68802,35452,3846	9,74696,33776	10:48
	15,23759,29785	22,89810	11,16583	13,57091,9625	17,80456	
19	48770,72980,65362	55865,20840	1 14546,59100	9,68815,92544,3471	9,74714,14232	11:24
	15,23610,73371	22,90256	11,17149	13,56535,7759	17,80073	
20	48785,96591,38733	55888,11096	1 14557,76249	9,68829,49080,1230	9,74731,94305	12: 0
	15,23462,12316	22,90703	11,17716	13,55979,9365	17,79692	
21	48801,20053,51049	55911,01799	1 14568,93965	9,68843,05060,0595	9,74749,73997	12:36
	15,23313,46620	22,91150	11,18283	13,55424,4443	17,79309	
22	48816,43366,97669	55933,92949	1 14580,12248	9,68856,60484,5038	9,74767,53306	13:12
	15,23164,76284	22,91598	11,18851	13,54869,2985	17,78928	
23	48831,66531,73953	55956,84547	1 14591,31099	9,68870,15353,8023	9,74785,32234	13:48
	15,23016,01309	22,92045	11,19418	13,54314,4991	17,78547	
24	48846,89547,75262	55979,76592	1 14602,50517	9,68883,69668,3014	9,74803,10781	14:24
	15,22867,21693	22,92493	11,19987	13,53760,0457	17,78166	
25	48862,12414,96955	56002,69085	1 14613,70504	9,68897,23428,3471	9,74820,88947	15: 0
	15,22718,37439	22,92941	11,20554	13,53205,9376	17,77786	
26	48877,35133,34394	56025,62026	1 14624,91058	9,68910,76634,2847	9,74838,66733	15:36
	15,22569,48546	22,93390	11,21123	13,52652,1749	17,77406	
27	48892,57702,82940	56048,55416	1 14636,12181	9,68924,29286,4596	9,74856,44139	16:12
	15,22420,55016	22,93838	11,21691	13,52098,7570	17,77026	
28	48907,80123,37956	56071,49254	1 14647,33872	9,68937,81385,2166	9,74874,21165	16:48
	15,22271,56848	22,94288	11,22260	13,51545,6836	17,76648	
29	48923,02394,94804	56094,43542	1 14658,56132	9,68951,32930,9002	9,74891,97813	17:24
	15,22122,54042	22,94736	11,22830	13,50992,9543	17,76268	
30	48938,24517,48846	56117,38278	1 14669,78962	9,68964,83923,8545	9,74909,74081	18: 0
	15,21973,46601	22,95187	11,23398	13,50440,5687	17,75890	
31	48953,46490,95447	56140,33465	1 14681,02360	9,68978,34364,4232	9,74927,49971	18:36
	15,21824,34522	22,95636	11,23968	13,49888,5267	17,75512	
32	48968,68315,29969	56163,29101	1 14692,26328	9,68991,84252,9499	9,74945,25483	19:12
	15,21675,17808	22,96086	11,24538	13,49336,8276	17,75134	
33	48983,89990,47777	56186,25187	1 14703,50866	9,69005,33589,7775	9,74963,00617	19:48
	15,21525,96460	22,96537	11,25108	13,48785,4713	17,74757	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
100	87461,97071,39396	1 80404,77553	2 06266,53396	9,94181,92587,4571	10,25624,80296	60: 0
	8,46285,61977	74,23320	64,92268	4,20245,4557	17,87408	
99	87453,50785,77419	1 80330,54233	2 06201,61128	9,94177,72342,0014	10,25606,92888	59:24
	8,46552,01838	74,18649	64,87554	4,20418,4313	17,87019	
98	87445,04233,75581	1 80256,35584	2 06136,73574	9,94173,51923,5701	10,25589,05869	58:48
	8,46818,39122	74,13983	64,82847	4,20591,4403	17,86630	
97	87436,57415,36459	1 80182,21601	2 06071,90727	9,94169,31332,1298	10,25571,19239	58:12
	8,47084,73825	74,09320	64,78142	4,20764,4827	17,86241	
96	87428,10330,62634	1 80108,12281	2 06007,12585	9,94165,10567,6471	10,25553,32998	57:36
	8,47351,05949	74,04665	64,73444	4,20937,5588	17,85853	
95	87419,62979,56685	1 80034,07616	2 05942,39141	9,94160,89630,0883	10,25535,47145	57: 0
	8,47617,35490	74,00012	64,68749	4,21110,6684	17,85465	
94	87411,15362,21195	1 79960,07604	2 05877,70392	9,94156,68519,4199	10,25517,61680	56:24
	8,47883,62451	73,95365	64,64061	4,21283,8115	17,85077	
93	87402,67478,58744	1 79886,12239	2 05813,06331	9,94152,47235,6084	10,25499,76603	55:48
	8,48149,86827	73,90723	64,59376	4,21456,9883	17,84690	
92	87394,19328,71917	1 79812,21516	2 05748,46955	9,94148,25778,6201	10,25481,91913	55:12
	8,48416,08621	73,86085	64,54696	4,21630,1987	17,84303	
91	87385,70912,63296	1 79738,35431	2 05683,92259	9,94144,04148,4214	10,25464,07610	54:36
	8,48682,27831	73,81453	64,50022	4,21803,4427	17,83917	
90	87377,22230,35465	1 79664,53978	2 05619,42237	9,94139,82344,9787	10,25446,23693	54: 0
	8,48948,44454	73,76825	64,45352	4,21976,7203	17,83531	
89	87368,73281,91011	1 79590,77153	2 05554,96885	9,94135,60368,2584	10,25428,40162	53:24
	8,49214,58492	73,72202	64,40686	4,22150,0317	17,83145	
88	87360,24067,32519	1 79517,04951	2 05490,56199	9,94131,38218,2267	10,25410,57017	52:48
	8,49480,69944	73,67583	64,36026	4,22323,3767	17,82760	
87	87351,74586,62575	1 79443,37368	2 05426,20173	9,94127,15894,8500	10,25392,74257	52:12
	8,49746,78806	73,62971	64,31371	4,22496,7555	17,82375	
86	87343,24839,83769	1 79369,74397	2 05361,88802	9,94122,93398,0945	10,25374,91882	51:36
	8,50012,85082	73,58361	64,26719	4,22670,1679	17,81990	
85	87334,74826,98687	1 79296,16036	2 05297,62083	9,94118,70727,9266	10,25357,09892	51: 0
	8,50278,88767	73,53758	64,22073	4,22843,6142	17,81606	
84	87326,24548,09920	1 79222,62278	2 05233,40010	9,94114,47884,3124	10,25339,28286	50:24
	8,50544,89862	73,49159	64,17432	4,23017,0942	17,81223	
83	87317,74003,20058	1 79149,13119	2 05169,22578	9,94110,24867,2182	10,25321,47063	49:48
	8,50810,88368	73,44564	64,12795	4,23190,6081	17,80839	
82	87309,23192,31690	1 79075,68555	2 05105,09783	9,94106,01676,6101	10,25303,66224	49:12
	8,51076,84280	73,39975	64,08164	4,23364,1557	17,80456	
81	87300,72115,47410	1 79002,28580	2 05041,01619	9,94101,78312,4544	10,25285,85768	48:36
	8,51342,77600	73,35390	64,03536	4,23537,7371	17,80073	
80	87292,20772,69810	1 78928,93190	2 04976,98083	9,94097,54774,7173	10,25268,05695	48: 0
	8,51608,68328	73,30810	63,98913	4,23711,3525	17,79692	
79	87283,69164,01482	1 78855,62380	2 04912,99170	9,94093,31063,3648	10,25250,26003	47:24
	8,51874,56460	73,26234	63,94296	4,23885,0018	17,79309	
78	87275,17289,45022	1 78782,36146	2 04849,04874	9,94089,07178,3630	10,25232,46694	46:48
	8,52140,41998	73,21664	63,89683	4,24058,6848	17,78928	
77	87266,65149,03024	1 78709,14482	2 04785,15191	9,94084,83119,6782	10,25214,67766	46:12
	8,52406,24941	73,17098	63,85075	4,24232,4019	17,78547	
76	87258,12742,78083	1 78635,97384	2 04721,30116	9,94080,58887,2763	10,25196,89219	45:36
	8,52672,05286	73,12536	63,80470	4,24406,1529	17,78166	
75	87249,60070,72797	1 78562,84848	2 04657,49646	9,94076,34481,1234	10,25179,11053	45: 0
	8,52937,83034	73,07981	63,75872	4,24579,9378	17,77786	
74	87241,07132,89763	1 78489,76867	2 04593,73774	9,94072,09901,1856	10,25161,33267	44:24
	8,53203,58184	73,03428	63,71278	4,24753,7568	17,77406	
73	87232,53929,31579	1 78416,73439	2 04530,02496	9,94067,85147,4288	10,25143,55861	43:48
	8,53469,30735	72,98881	63,66688	4,24927,6096	17,77026	
72	87224,00460,00844	1 78343,74558	2 04466,35808	9,94063,60219,8192	10,25125,78835	43:12
	8,53735,00687	72,94339	63,62103	4,25101,4967	17,76648	
71	87215,46725,00157	1 78270,80219	2 04402,73705	9,94059,35118,3225	10,25108,02187	42:36
	8,54000,68036	72,89801	63,57523	4,25275,4176	17,76268	
70	87206,92724,32121	1 78197,90418	2 04339,16182	9,94055,09842,9049	10,25090,25919	42: 0
	8,54266,32786	72,85268	63,52947	4,25449,3727	17,75890	
69	87198,38457,99335	1 78125,05150	2 04275,63235	9,94050,84393,5322	10,25072,50029	41:24
	8,54531,94933	72,80740	63,48377	4,25623,3619	17,75512	
68	87189,83926,04402	1 78052,24410	2 04212,14858	9,94046,58770,1703	10,25054,74517	40:48
	8,54797,54477	72,76216	63,43810	4,25797,3851	17,75134	
67	87181,29128,49925	1 77979,48194	2 04148,71048	9,94042,32972,7852	10,25036,99383	40:12
	8,55063,11416	72,71697	63,39248	4,25971,4425	17,74757	

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29. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	48983,89990,47777	56186,25187	1 14703,50866	9,69005,33589,7775	9,74963,00617	19:48
	15,21525,96460	22,96537	11,25108	13,48785,4713	17,74757	
34	48999,11516,44237	56209,21724	1 14714,75974	9,69018,82375,2488	9,74980,75374	20:24
	15,21376,70475	22,96987	11,25678	13,48234,4574	17,74380	
35	49014,32893,14712	56232,18711	1 14726,01652	9,69032,30609,7062	9,74998,49754	21: 0
	15,21227,39857	22,97438	11,26249	13,47683,7854	17,74003	
36	49029,54120,54569	56255,16149	1 14737,27901	9,69045,78293,4916	9,75016,23757	21:36
	15,21078,04604	22,97889	11,26819	13,47133,4552	17,73628	
37	49044,75198,59173	56278,14038	1 14748,54720	9,69059,25426,9468	9,75033,97385	22:12
	15,20928,64719	22,98341	11,27391	13,46583,4661	17,73251	
38	49059,96127,23892	56301,12379	1 14759,82111	9,69072,72010,4129	9,75051,70636	22:48
	15,20779,20200	22,98793	11,27961	13,46033,8182	17,72876	
39	49075,16906,44092	56324,11172	1 14771,10072	9,69086,18044,2311	9,75069,43512	23:24
	15,20629,71049	22,99244	11,28533	13,45484,5107	17,72501	
40	49090,37536,15141	56347,10416	1 14782,38605	9,69099,63528,7418	9,75087,16013	24: 0
	15,20480,17265	22,99697	11,29105	13,44935,5436	17,72127	
41	49105,58016,32406	56370,10113	1 14793,67710	9,69113,08464,2854	9,75104,88140	24:36
	15,20330,58850	23,00149	11,29676	13,44386,9163	17,71752	
42	49120,78346,91256	56393,10262	1 14804,97386	9,69126,52851,2017	9,75122,59892	25:12
	15,20180,95804	23,00602	11,30249	13,43838,6287	17,71378	
43	49135,98527,87060	56416,10864	1 14816,27635	9,69139,96689,8304	9,75140,31270	25:48
	15,20031,28127	23,01056	11,30821	13,43290,6801	17,71004	
44	49151,18559,15187	56439,11920	1 14827,58456	9,69153,39980,5105	9,75158,02274	26:24
	15,19881,55820	23,01508	11,31394	13,42743,0705	17,70632	
45	49166,38440,71007	56462,13428	1 14838,89850	9,69166,82723,5810	9,75175,72906	27: 0
	15,19731,78882	23,01963	11,31966	13,42195,7994	17,70258	
46	49181,58172,49889	56485,15391	1 14850,21816	9,69180,24919,3804	9,75193,43164	27:36
	15,19581,97316	23,02416	11,32540	13,41648,8665	17,69886	
47	49196,77754,47205	56508,17807	1 14861,54356	9,69193,66568,2469	9,75211,13050	28:12
	15,19432,11121	23,02870	11,33113	13,41102,2713	17,69515	
48	49211,97186,58326	56531,20677	1 14872,87469	9,69207,07670,5182	9,75228,82565	28:48
	15,19282,20296	23,03325	11,33686	13,40556,0137	17,69142	
49	49227,16468,78622	56554,24002	1 14884,21155	9,69220,48226,5319	9,75246,51707	29:24
	15,19132,24845	23,03780	11,34261	13,40010,0931	17,68771	
50	49242,35601,03467	56577,27782	1 14895,55416	9,69233,88236,6250	9,75264,20478	30: 0
	15,18982,24766	23,04235	11,34834	13,39464,5095	17,68400	
51	49257,54583,28233	56600,32017	1 14906,90250	9,69247,27701,1345	9,75281,88878	30:36
	15,18832,20059	23,04690	11,35409	13,38919,2621	17,68030	
52	49272,73415,48292	56623,36707	1 14918,25659	9,69260,66620,3966	9,75299,56908	31:12
	15,18682,10725	23,05145	11,35983	13,38374,3508	17,67659	
53	49287,92097,59017	56646,41852	1 14929,61642	9,69274,04994,7474	9,75317,24567	31:48
	15,18531,96767	23,05601	11,36558	13,37829,7755	17,67290	
54	49303,10629,55784	56669,47453	1 14940,98200	9,69287,42824,5229	9,75334,91857	32:24
	15,18381,78182	23,06058	11,37133	13,37285,5353	17,66920	
55	49318,29011,33966	56692,53511	1 14952,35333	9,69300,80110,0582	9,75352,58777	33: 0
	15,18231,54971	23,06514	11,37709	13,36741,6304	17,66551	
56	49333,47242,88937	56715,60025	1 14963,73042	9,69314,16851,6886	9,75370,25328	33:36
	15,18081,27136	23,06970	11,38284	13,36198,0601	17,66182	
57	49348,65324,16073	56738,66995	1 14975,11326	9,69327,53049,7487	9,75387,91510	34:12
	15,17930,94677	23,07428	11,38859	13,35654,8242	17,65814	
58	49363,83255,10750	56761,74423	1 14986,50185	9,69340,88704,5729	9,75405,57324	34:48
	15,17780,57594	23,07885	11,39436	13,35111,9223	17,65446	
59	49379,01035,68344	56784,82308	1 14997,89621	9,69354,23816,4952	9,75423,22770	35:24
	15,17630,15887	23,08342	11,40011	13,34569,3542	17,65078	
60	49394,18665,84231	56807,90650	1 15009,29632	9,69367,58385,8494	9,75440,87848	36: 0
	15,17479,69557	23,08800	11,40589	13,34027,1194	17,64712	
61	49409,36145,53788	56830,99450	1 15020,70221	9,69380,92412,9688	9,75458,52560	36:36
	15,17329,18605	23,09258	11,41165	13,33485,2176	17,64344	
62	49424,53474,72393	56854,08708	1 15032,11386	9,69394,25898,1864	9,75476,16904	37:12
	15,17178,63031	23,09717	11,41741	13,32943,6484	17,63977	
63	49439,70653,35424	56877,18425	1 15043,53127	9,69407,58841,8348	9,75493,80881	37:48
	15,17028,02836	23,10175	11,42319	13,32402,4117	17,63612	
64	49454,87681,38260	56900,28600	1 15054,95446	9,69420,91244,2465	9,75511,44493	38:24
	15,16877,38018	23,10634	11,42897	13,31861,5069	17,63246	
65	49470,04558,76278	56923,39234	1 15066,38343	9,69434,23105,7534	9,75529,07739	39: 0
	15,16726,68580	23,11093	11,43474	13,31320,9338	17,62880	
66	49485,21285,44858	56946,50327	1 15077,81817	9,69447,54426,6872	9,75546,70619	39:36
	15,16575,94523	23,11553	11,44052	13,30780,6920	17,62515	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	87181,29128,49925	1 77979,48194	2 04148,71048	9,94042,32972,7852	10,25036,99383	40:12
	8,55063,11416	72,71697	63,39248	4,25971,4425	17,74757	
66	87172,74065,38509	1 77906,76497	2 04085,31800	9,94038,07001,3427	10,25019,24626	39:36
	8,55328,65752	72,67182	63,34692	4,26145,5341	17,74380	
65	87164,18736,72757	1 77834,09315	2 04021,97108	9,94033,80855,8086	10,25001,50246	39: 0
	8,55594,17481	72,62673	63,30139	4,26319,6597	17,74003	
64	87155,63142,55276	1 77761,46642	2 03958,66969	9,94029,54536,1489	10,24983,76243	38:24
	8,55859,66605	72,58168	63,25591	4,26493,8196	17,73628	
63	87147,07282,88671	1 77688,88474	2 03895,41378	9,94025,28042,3293	10,24966,02615	37:48
	8,56125,13122	72,53667	63,21048	4,26668,0138	17,73251	
62	87138,51157,75549	1 77616,34807	2 03832,20330	9,94021,01374,3155	10,24948,29364	37:12
	8,56390,57030	72,49171	63,16510	4,26842,2420	17,72876	
61	87129,94767,18519	1 77543,85636	2 03769,03820	9,94016,74532,0735	10,24930,56488	36:36
	8,56655,98330	72,44680	63,11975	4,27016,5047	17,72501	
60	87121,38111,20189	1 77471,40956	2 03705,91845	9,94012,47515,5688	10,24912,83987	36: 0
	8,56921,37020	72,40193	63,07446	4,27190,8015	17,72127	
59	87112,81189,83169	1 77399,00763	2 03642,84399	9,94008,20324,7673	10,24895,11860	35:24
	8,57186,73099	72,35712	63,02922	4,27365,1326	17,71752	
58	87104,24003,10070	1 77326,65051	2 03579,81477	9,94003,92959,6347	10,24877,40108	34:48
	8,57452,06569	72,31234	62,98401	4,27539,4981	17,71378	
57	87095,66551,03501	1 77254,33817	2 03516,83076	9,93999,65420,1366	10,24859,68730	34:12
	8,57717,37426	72,26761	62,93886	4,27713,8979	17,71004	
56	87087,08833,66075	1 77182,07056	2 03453,89190	9,93995,37706,2387	10,24841,97726	33:36
	8,57982,65669	72,22293	62,89375	4,27888,3321	17,70632	
55	87078,50851,00406	1 77109,84763	2 03390,99815	9,93991,09817,9066	10,24824,27094	33: 0
	8,58247,91300	72,17829	62,84868	4,28062,8005	17,70258	
54	87069,92603,09106	1 77037,66934	2 03328,14947	9,93986,81755,1061	10,24806,56836	32:24
	8,58513,14317	72,13370	62,80367	4,28237,3035	17,69886	
53	87061,34089,94789	1 76965,53564	2 03265,34580	9,93982,53517,8026	10,24788,86950	31:48
	8,58778,34717	72,08916	62,75869	4,28411,8409	17,69515	
52	87052,75311,60072	1 76893,44648	2 03202,58711	9,93978,25105,9617	10,24771,17435	31:12
	8,59043,52502	72,04465	62,71376	4,28586,4126	17,69142	
51	87044,16268,07570	1 76821,40183	2 03139,87335	9,93973,96519,5491	10,24753,48293	30:36
	8,59308,67670	72,00021	62,66888	4,28761,0188	17,68771	
50	87035,56959,39900	1 76749,40162	2 03077,20447	9,93969,67758,5303	10,24735,79522	30: 0
	8,59573,80221	71,95579	62,62405	4,28935,6596	17,68400	
49	87026,97385,59679	1 76677,44583	2 03014,58042	9,93965,38822,8707	10,24718,11122	29:24
	8,59838,90153	71,91143	62,57925	4,29110,3347	17,68030	
48	87018,37546,69526	1 76605,53440	2 02952,00117	9,93961,09712,5360	10,24700,43092	28:48
	8,60103,97466	71,86712	62,53450	4,29285,0445	17,67659	
47	87009,77442,72060	1 76533,66728	2 02889,46667	9,93956,80427,4915	10,24682,75433	28:12
	8,60369,02159	71,82284	62,48980	4,29459,7888	17,67290	
46	87001,17073,69901	1 76461,84444	2 02826,97687	9,93952,50967,7027	10,24665,08143	27:36
	8,60634,04231	71,77861	62,44515	4,29634,5676	17,66920	
45	86992,56439,65670	1 76390,06583	2 02764,53172	9,93948,21333,1351	10,24647,41223	27: 0
	8,60899,03682	71,73443	62,40054	4,29809,3811	17,66551	
44	86983,95540,61988	1 76318,33140	2 02702,13118	9,93943,91523,7540	10,24629,74672	26:24
	8,61164,00509	71,69030	62,35597	4,29984,2291	17,66182	
43	86975,34376,61479	1 76246,64110	2 02639,77521	9,93939,61539,5249	10,24612,08490	25:48
	8,61428,94714	71,64621	62,31144	4,30159,1117	17,65814	
42	86966,72947,66765	1 76174,99489	2 02577,46377	9,93935,31380,4132	10,24594,42676	25:12
	8,61693,86295	71,60215	62,26697	4,30334,0291	17,65446	
41	86958,11253,80470	1 76103,39274	2 02515,19680	9,93931,01046,3841	10,24576,77230	24:36
	8,61958,75251	71,55816	62,22254	4,30508,9810	17,65078	
40	86949,49295,05219	1 76031,83458	2 02452,97426	9,93926,70537,4031	10,24559,12152	24: 0
	8,62223,61581	71,51420	62,17815	4,30683,9676	17,64712	
39	86940,87071,43638	1 75960,32038	2 02390,79611	9,93922,39853,4355	10,24541,47440	23:24
	8,62488,45284	71,47029	62,13381	4,30858,9891	17,64344	
38	86932,24582,98354	1 75888,85009	2 02328,66230	9,93918,08994,4464	10,24523,83096	22:48
	8,62753,26361	71,42642	62,08952	4,31034,0451	17,63977	
37	86923,61829,71993	1 75817,42367	2 02266,57278	9,93913,77960,4013	10,24506,19119	22:12
	8,63018,04809	71,38260	62,04525	4,31209,1360	17,63612	
36	86914,98811,67184	1 75746,04107	2 02204,52753	9,93909,46751,2653	10,24488,55507	21:36
	8,63282,80628	71,33882	62,00105	4,31384,2617	17,63246	
35	86906,35528,86556	1 75674,70225	2 02142,52648	9,93905,15367,0036	10,24470,92261	21: 0
	8,63547,53819	71,29509	61,95689	4,31559,4220	17,62880	
34	86897,71981,32737	1 75603,40716	2 02080,56959	9,93900,83807,5816	10,24453,29381	20:24
	8,63812,24377	71,25140	61,91276	4,31734,6173	17,62515	

GRAD. 60.

29. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	49500,37861,39381	56969,61880	1 15089,25869	9,69460,85207,3792	9,75564,33134	40:12
	15,16425,15846	23,12012	11,44630	13,30240,7811	17,62151	
68	49515,54286,55227	56992,73892	1 15100,70499	9,69474,15448,1603	9,75581,95285	40:48
	15,16274,32548	23,12472	11,45209	13,29701,2010	17,61786	
69	49530,70560,87775	57015,86364	1 15112,15708	9,69487,45149,3613	9,75599,57071	41:24
	15,16123,44633	23,12933	11,45787	13,29161,9512	17,61423	
70	49545,86684,32408	57038,99297	1 15123,61495	9,69500,74311,3125	9,75617,18494	42: 0
	15,15972,52098	23,13393	11,46366	13,28623,0312	17,61058	
71	49561,02656,84506	57062,12690	1 15135,07861	9,69514,02934,3437	9,75634,79552	42:36
	15,15821,54947	23,13854	11,46945	13,28084,4411	17,60696	
72	49576,18478,39453	57085,26544	1 15146,54806	9,69527,31018,7848	9,75652,40248	43:12
	15,15670,53177	23,14315	11,47525	13,27546,1800	17,60333	
73	49591,34148,92630	57108,40859	1 15158,02331	9,69540,58564,9648	9,75670,00581	43:48
	15,15519,46791	23,14776	11,48104	13,27008,2481	17,59970	
74	49606,49668,39421	57131,55635	1 15169,50435	9,69553,85573,2129	9,75687,60551	44:24
	15,15368,35787	23,15239	11,48684	13,26470,6448	17,59608	
75	49621,65036,75208	57154,70874	1 15180,99119	9,69567,12043,8577	9,75705,20159	45: 0
	15,15217,20169	23,15700	11,49264	13,25933,3697	17,59246	
76	49636,80253,95377	57177,86574	1 15192,48383	9,69580,37977,2274	9,75722,79405	45:36
	15,15065,99934	23,16162	11,49844	13,25396,4227	17,58885	
77	49651,95319,95311	57201,02736	1 15203,98227	9,69593,63373,6501	9,75740,38290	46:12
	15,14914,75084	23,16625	11,50425	13,24859,8032	17,58524	
78	49667,10234,70395	57224,19361	1 15215,48652	9,69606,88233,4533	9,75757,96814	46:48
	15,14763,45620	23,17088	11,51006	13,24323,5112	17,58163	
79	49682,24998,16015	57247,36449	1 15226,99658	9,69620,12556,9645	9,75775,54977	47:24
	15,14612,11540	23,17550	11,51587	13,23787,5459	17,57803	
80	49697,39610,27555	57270,53999	1 15238,51245	9,69633,36344,5104	9,75793,12780	48: 0
	15,14460,72849	23,18015	11,52168	13,23251,9074	17,57443	
81	49712,54071,00404	57293,72014	1 15250,03413	9,69646,59596,4178	9,75810,70223	48:36
	15,14309,29542	23,18477	11,52750	13,22716,5953	17,57083	
82	49727,68380,29946	57316,90491	1 15261,56163	9,69659,82313,0131	9,75828,27306	49:12
	15,14157,81624	23,18942	11,53331	13,22181,6090	17,56725	
83	49742,82538,11570	57340,09433	1 15273,09494	9,69673,04494,6221	9,75845,84031	49:48
	15,14006,29093	23,19406	11,53914	13,21646,9484	17,56365	
84	49757,96544,40663	57363,28839	1 15284,63408	9,69686,26141,5705	9,75863,40396	50:24
	15,13854,71949	23,19870	11,54496	13,21112,6131	17,56007	
85	49773,10399,12612	57386,48709	1 15296,17904	9,69699,47254,1836	9,75880,96403	51: 0
	15,13703,10195	23,20335	11,55078	13,20578,6029	17,55648	
86	49788,24102,22807	57409,69044	1 15307,72982	9,69712,67832,7865	9,75898,52051	51:36
	15,13551,43830	23,20800	11,55661	13,20044,9172	17,55291	
87	49803,37653,66637	57432,89844	1 15319,28643	9,69725,87877,7037	9,75916,07342	52:12
	15,13399,72854	23,21266	11,56245	13,19511,5559	17,54933	
88	49818,51053,39491	57456,11110	1 15330,84888	9,69739,07389,2596	9,75933,62275	52:48
	15,13247,97267	23,21731	11,56827	13,18978,5187	17,54577	
89	49833,64301,36758	57479,32841	1 15342,41715	9,69752,26367,7783	9,75951,16852	53:24
	15,13096,17072	23,22196	11,57411	13,18445,8050	17,54219	
90	49848,77397,53830	57502,55037	1 15353,99126	9,69765,44813,5833	9,75968,71071	54: 0
	15,12944,32267	23,22664	11,57995	13,17913,4148	17,53863	
91	49863,90341,86097	57525,77701	1 15365,57121	9,69778,62726,9981	9,75986,24934	54:36
	15,12792,42854	23,23129	11,58579	13,17381,3476	17,53508	
92	49879,03134,28951	57549,00830	1 15377,15700	9,69791,80108,3457	9,76003,78442	55:12
	15,12640,48831	23,23596	11,59163	13,16849,6029	17,53151	
93	49894,15774,77782	57572,24426	1 15388,74863	9,69804,96957,9486	9,76021,31593	55:48
	15,12488,50203	23,24063	11,59747	13,16318,1808	17,52796	
94	49909,28263,27985	57595,48489	1 15400,34610	9,69818,13276,1294	9,76038,84389	56:24
	15,12336,46965	23,24531	11,60332	13,15787,0807	17,52442	
95	49924,40599,74950	57618,73020	1 15411,94942	9,69831,29063,2101	9,76056,36831	57: 0
	15,12184,39121	23,24998	11,60918	13,15256,3023	17,52087	
96	49939,52784,14071	57641,98018	1 15423,55860	9,69844,44319,5124	9,76073,88918	57:36
	15,12032,26672	23,25466	11,61502	13,14725,8452	17,51732	
97	49954,64816,40743	57665,23484	1 15435,17362	9,69857,59045,3576	9,76091,40650	58:12
	15,11880,09615	23,25934	11,62088	13,14195,7092	17,51379	
98	49969,76696,50358	57688,49418	1 15446,79450	9,69870,73241,0668	9,76108,92029	58:48
	15,11727,87954	23,26403	11,62674	13,13665,8941	17,51025	
99	49984,88424,38312	57711,75821	1 15458,42124	9,69883,86906,9609	9,76126,43054	59:24
	15,11575,61688	23,26871	11,63260	13,13136,3993	17,50672	
100	50000,00000,00000	57735,02692	1 15470,05384	9,69897,00043,3602	9,76143,93726	60: 0
	15,11423,30817	23,27340	11,63846	13,12607,2246	17,50320	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	86889,08169,08360	1 75532,15576	2 02018,65683	9,93896,52072,9643	10,24435,66866	19:48
	8,64076,92305	71,20776	61,86869	4,31909,8473	17,62151	
32	86880,44092,16055	1 75460,94800	2 01956,78814	9,93892,20163,1170	10,24418,04715	19:12
	8,64341,57600	71,16415	61,82466	4,32085,1123	17,61786	
31	86871,79750,58455	1 75389,78385	2 01894,96348	9,93887,88078,0047	10,24400,42929	18:36
	8,64606,20264	71,12060	61,78067	4,32260,4121	17,61423	
30	86863,15144,38191	1 75318,66325	2 01833,18281	9,93883,55817,5926	10,24382,81506	18: 0
	8,64870,80292	71,07709	61,73673	4,32435,7468	17,61058	
29	86854,50273,57899	1 75247,58616	2 01771,44608	9,93879,23381,8458	10,24365,20448	17:24
	8,65135,37687	71,03363	61,69283	4,32611,1164	17,60696	
28	86845,85138,20212	1 75176,55253	2 01709,75325	9,93874,90770,7294	10,24347,59752	16:48
	8,65399,92446	70,99020	61,64897	4,32786,5210	17,60333	
27	86837,19738,27766	1 75105,56233	2 01648,10428	9,93870,57984,2084	10,24329,99419	16:12
	8,65664,44569	70,94682	61,60516	4,32961,9605	17,59970	
26	86828,54073,83197	1 75034,61551	2 01586,49912	9,93866,25022,2479	10,24312,39449	15:36
	8,65928,94055	70,90349	61,56140	4,33137,4350	17,59608	
25	86819,88144,89142	1 74963,71202	2 01524,93772	9,93861,91884,8129	10,24294,79841	15: 0
	8,66193,40903	70,86020	61,51767	4,33312,9446	17,59246	
24	86811,21951,48239	1 74892,85182	2 01463,42005	9,93857,58571,8683	10,24277,20595	14:24
	8,66457,85113	70,81695	61,47399	4,33488,4891	17,58885	
23	86802,55493,63126	1 74822,03487	2 01401,94606	9,93853,25083,3792	10,24259,61710	13:48
	8,66722,26682	70,77375	61,43036	4,33664,0687	17,58524	
22	86793,88771,36444	1 74751,26112	2 01340,51570	9,93848,91419,3105	10,24242,03186	13:12
	8,66986,65613	70,73059	61,38676	4,33839,6833	17,58163	
21	86785,21784,70831	1 74680,53053	2 01279,12894	9,93844,57579,6272	10,24224,45023	12:36
	8,67251,01903	70,68748	61,34322	4,34015,3331	17,57803	
20	86776,54533,68928	1 74609,84305	2 01217,78572	9,93840,23564,2941	10,24206,87220	12: 0
	8,67515,35549	70,64440	61,29971	4,34191,0179	17,57443	
19	86767,87018,33379	1 74539,19865	2 01156,48601	9,93835,89373,2762	10,24189,29777	11:24
	8,67779,66554	70,60138	61,25625	4,34366,7380	17,57083	
18	86759,19238,66825	1 74468,59727	2 01095,22976	9,93831,55006,5382	10,24171,72694	10:48
	8,68043,94915	70,55839	61,21283	4,34542,4931	17,56725	
17	86750,51194,71910	1 74398,03888	2 01034,01693	9,93827,20464,0451	10,24154,15969	10:12
	8,68308,20633	70,51546	61,16945	4,34718,2834	17,56365	
16	86741,82886,51277	1 74327,52342	2 00972,84748	9,93822,85745,7617	10,24136,59604	9:36
	8,68572,43704	70,47255	61,12613	4,34894,1089	17,56007	
15	86733,14314,07573	1 74257,05087	2 00911,72135	9,93818,50851,6528	10,24119,03597	9: 0
	8,68836,64131	70,42970	61,08283	4,35069,9697	17,55648	
14	86724,45477,43442	1 74186,62117	2 00850,63852	9,93814,15781,6831	10,24101,47949	8:24
	8,69100,81910	70,38690	61,03959	4,35245,8656	17,55291	
13	86715,76376,61532	1 74116,23427	2 00789,59893	9,93809,80535,8175	10,24083,92658	7:48
	8,69364,97042	70,34412	60,99639	4,35421,7968	17,54933	
12	86707,07011,64490	1 74045,89015	2 00728,60254	9,93805,45114,0207	10,24066,37725	7:12
	8,69629,09526	70,30141	60,95323	4,35597,7634	17,54577	
11	86698,37382,54964	1 73975,58874	2 00667,64931	9,93801,09516,2573	10,24048,83148	6:36
	8,69893,19361	70,25872	60,91012	4,35773,7652	17,54219	
10	86689,67489,35603	1 73905,33002	2 00606,73919	9,93796,73742,4921	10,24031,28929	6: 0
	8,70157,26546	70,21608	60,86704	4,35949,8023	17,53863	
9	86680,97332,09057	1 73835,11394	2 00545,87215	9,93792,37792,6898	10,24013,75066	5:24
	8,70421,31081	70,17349	60,82401	4,36125,8749	17,53508	
8	86672,26910,77976	1 73764,94045	2 00485,04814	9,93788,01666,8149	10,23996,21558	4:48
	8,70685,32963	70,13094	60,78102	4,36301,9826	17,53151	
7	86663,56225,45013	1 73694,80951	2 00424,26712	9,93783,65364,8323	10,23978,68407	4:12
	8,70949,32194	70,08844	60,73808	4,36478,1259	17,52796	
6	86654,85276,12819	1 73624,72107	2 00363,52904	9,93779,28886,7064	10,23961,15611	3:36
	8,71213,28772	70,04596	60,69518	4,36654,3046	17,52442	
5	86646,14062,84047	1 73554,67511	2 00302,83386	9,93774,92232,4018	10,23943,63169	3: 0
	8,71477,22695	70,00355	60,65232	4,36830,5186	17,52087	
4	86637,42585,61352	1 73484,67156	2 00242,18154	9,93770,55401,8832	10,23926,11082	2:24
	8,71741,13965	69,96116	60,60950	4,37006,7682	17,51732	
3	86628,70844,47387	1 73414,71040	2 00181,57204	9,93766,18395,1150	10,23908,59350	1:48
	8,72005,02578	69,91883	60,56673	4,37183,0531	17,51379	
2	86619,98839,44809	1 73344,79157	2 00121,00531	9,93761,81212,0619	10,23891,07971	1:12
	8,72268,88535	69,87653	60,52400	4,37359,3737	17,51025	
1	86611,26570,56274	1 73274,91504	2 00060,48131	9,93757,43852,6882	10,23873,56946	0:36
	8,72532,71835	69,83428	60,48131	4,37535,7297	17,50672	
0	86602,54037,84439	1 73205,08076	2 00000,00000	9,93753,06316,9585	10,23856,06274	0: 0
	8,72796,52478	69,79208	60,43866	4,37712,1212	17,50320	

GRAD. 60.

30. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
0	50000,00000,00000	57735,02692	1 15470,05384	9,69897,00043,3602	9,76143,93726	0: 0
	15,11423,30817	23,27340	11,63846	13,12607,2246	17,50320	
1	50015,11423,30817	57758,30032	1 15481,69230	9,69910,12650,5848	9,76161,44046	0:36
	15,11270,95341	23,27810	11,64432	13,12078,3697	17,49967	
2	50030,22694,26158	57781,57842	1 15493,33662	9,69923,24728,9545	9,76178,94013	1:12
	15,11118,55263	23,28279	11,65019	13,11549,8342	17,49615	
3	50045,33812,81421	57804,86121	1 15504,98681	9,69936,36278,7887	9,76196,43628	1:48
	15,10966,10582	23,28749	11,65607	13,11021,6179	17,49263	
4	50060,44778,92003	57828,14870	1 15516,64288	9,69949,47300,4066	9,76213,92891	2:24
	15,10813,61297	23,29219	11,66193	13,10493,7204	17,48911	
5	50075,55592,53300	57851,44089	1 15528,30481	9,69962,57794,1270	9,76231,41802	3: 0
	15,10661,07410	23,29689	11,66781	13,09966,1414	17,48561	
6	50090,66253,60710	57874,73778	1 15539,97262	9,69975,67760,2684	9,76248,90363	3:36
	15,10508,48922	23,30160	11,67369	13,09438,8806	17,48210	
7	50105,76762,09632	57898,03938	1 15551,64631	9,69988,77199,1490	9,76266,38573	4:12
	15,10355,85832	23,30631	11,67956	13,08911,9376	17,47860	
8	50120,87117,95464	57921,34569	1 15563,32587	9,70001,86111,0866	9,76283,86433	4:48
	15,10203,18142	23,31102	11,68545	13,08385,3121	17,47510	
9	50135,97321,13606	57944,65671	1 15575,01132	9,70014,94496,3987	9,76301,33943	5:24
	15,10050,45851	23,31574	11,69133	13,07859,0039	17,47160	
10	50151,07371,59457	57967,97245	1 15586,70265	9,70028,02355,4026	9,76318,81103	6: 0
	15,09897,68961	23,32046	11,69722	13,07333,0125	17,46811	
11	50166,17269,28418	57991,29291	1 15598,39987	9,70041,09688,4151	9,76336,27914	6:36
	15,09744,87470	23,32518	11,70311	13,06807,3378	17,46462	
12	50181,27014,15888	58014,61809	1 15610,10298	9,70054,16495,7529	9,76353,74376	7:12
	15,09592,01382	23,32990	11,70901	13,06281,9792	17,46114	
13	50196,36606,17270	58037,94799	1 15621,81199	9,70067,22777,7321	9,76371,20490	7:48
	15,09439,10694	23,33463	11,71489	13,05756,9367	17,45765	
14	50211,46045,27964	58061,28262	1 15633,52688	9,70080,28534,6688	9,76388,66255	8:24
	15,09286,15409	23,33936	11,72080	13,05232,2098	17,45418	
15	50226,55331,43373	58084,62198	1 15645,24768	9,70093,33766,8786	9,76406,11673	9: 0
	15,09133,15525	23,34409	11,72669	13,04707,7981	17,45070	
16	50241,64464,58898	58107,96607	1 15656,97437	9,70106,38474,6767	9,76423,56743	9:36
	15,08980,11045	23,34883	11,73260	13,04183,7015	17,44723	
17	50256,73444,69943	58131,31490	1 15668,70697	9,70119,42658,3782	9,76441,01466	10:12
	15,08827,01969	23,35357	11,73850	13,03659,9196	17,44376	
18	50271,82271,71912	58154,66847	1 15680,44547	9,70132,46318,2978	9,76458,45842	10:48
	15,08673,88296	23,35830	11,74441	13,03136,4519	17,44030	
19	50286,90945,60208	58178,02677	1 15692,18988	9,70145,49454,7497	9,76475,89872	11:24
	15,08520,70027	23,36305	11,75032	13,02613,2984	17,43683	
20	50301,99466,30235	58201,38982	1 15703,94020	9,70158,52068,0481	9,76493,33555	12: 0
	15,08367,47163	23,36780	11,75623	13,02090,4585	17,43338	
21	50317,07833,77398	58224,75762	1 15715,69643	9,70171,54158,5066	9,76510,76893	12:36
	15,08214,19705	23,37255	11,76214	13,01567,9322	17,42993	
22	50332,16047,97103	58248,13017	1 15727,45857	9,70184,55726,4388	9,76528,19886	13:12
	15,08060,87652	23,37730	11,76807	13,01045,7189	17,42647	
23	50347,24108,84755	58271,50747	1 15739,22664	9,70197,56772,1577	9,76545,62533	13:48
	15,07907,51006	23,38206	11,77398	13,00523,8184	17,42303	
24	50362,32016,35761	58294,88953	1 15751,00062	9,70210,57295,9761	9,76563,04836	14:24
	15,07754,09765	23,38681	11,77991	13,00002,2303	17,41959	
25	50377,39770,45526	58318,27634	1 15762,78053	9,70223,57298,2064	9,76580,46795	15: 0
	15,07600,63933	23,39158	11,78583	12,99480,9545	17,41614	
26	50392,47371,09459	58341,66792	1 15774,56636	9,70236,56779,1609	9,76597,88409	15:36
	15,07447,13507	23,39634	11,79175	12,98959,9905	17,41271	
27	50407,54818,22966	58365,06426	1 15786,35811	9,70249,55739,1514	9,76615,29680	16:12
	15,07293,58490	23,40110	11,79769	12,98439,3380	17,40927	
28	50422,62111,81456	58388,46536	1 15798,15580	9,70262,54178,4894	9,76632,70607	16:48
	15,07139,98882	23,40588	11,80362	12,97918,9969	17,40585	
29	50437,69251,80338	58411,87124	1 15809,95942	9,70275,52097,4863	9,76650,11192	17:24
	15,06986,34681	23,41065	11,80956	12,97398,9665	17,40242	
30	50452,76238,15019	58435,28189	1 15821,76898	9,70288,49496,4528	9,76667,51434	18: 0
	15,06832,65892	23,41542	11,81549	12,96879,2468	17,39900	
31	50467,83070,80911	58458,69731	1 15833,58447	9,70301,46375,6996	9,76684,91334	18:36
	15,06678,92511	23,42021	11,82144	12,96359,8375	17,39558	
32	50482,89749,73422	58482,11752	1 15845,40591	9,70314,42735,5371	9,76702,30892	19:12
	15,06525,14541	23,42498	11,82737	12,95840,7380	17,39216	
33	50497,96274,87963	58505,54250	1 15857,23328	9,70327,38576,2751	9,76719,70108	19:48
	15,06371,31982	23,42977	11,83332	12,95321,9484	17,38875	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
100	86602,54037,84439	1 73205,08076	2 00000,00000	9,93753,06316,9585	10,23856,06274	60: 0
	8,72796,52478	69,79208	60,43866	4,37712,1212	17,50320	
99	86593,81241,31961	1 73135,28868	1 99939,56134	9,93748,68604,8373	10,23838,55954	59:24
	8,73060,30462	69,74990	60,39606	4,37888,5484	17,49967	
98	86585,08181,01499	1 73065,53878	1 99879,16528	9,93744,30716,2889	10,23821,05987	58:48
	8,73324,05785	69,70778	60,35350	4,38065,0110	17,49615	
97	86576,34856,95714	1 72995,83100	1 99818,81178	9,93739,92651,2779	10,23803,56372	58:12
	8,73587,78450	69,66570	60,31097	4,38241,5094	17,49263	
96	86567,61269,17264	1 72926,16530	1 99758,50081	9,93735,54409,7685	10,23786,07109	57:36
	8,73851,48452	69,62367	60,26850	4,38418,0433	17,48911	
95	86558,87417,68812	1 72856,54163	1 99698,23231	9,93731,15991,7252	10,23768,58198	57: 0
	8,74115,15793	69,58166	60,22607	4,38594,6128	17,48561	
94	86550,13302,53019	1 72786,95997	1 99638,00624	9,93726,77397,1124	10,23751,09637	56:24
	8,74378,80471	69,53971	60,18367	4,38771,2181	17,48210	
93	86541,38923,72548	1 72717,42026	1 99577,82257	9,93722,38625,8943	10,23733,61427	55:48
	8,74642,42486	69,49779	60,14132	4,38947,8589	17,47860	
92	86532,64281,30062	1 72647,92247	1 99517,68125	9,93717,99678,0354	10,23716,13567	55:12
	8,74906,01836	69,45593	60,09901	4,39124,5357	17,47510	
91	86523,89375,28226	1 72578,46654	1 99457,58224	9,93713,60553,4997	10,23698,66057	54:36
	8,75169,58522	69,41410	60,05674	4,39301,2480	17,47160	
90	86515,14205,69704	1 72509,05244	1 99397,52550	9,93709,21252,2517	10,23681,18897	54: 0
	8,75433,12540	69,37231	60,01452	4,39477,9961	17,46811	
89	86506,38772,57164	1 72439,68013	1 99337,51098	9,93704,81774,2556	10,23663,72086	53:24
	8,75696,63893	69,33056	59,97233	4,39654,7800	17,46462	
88	86497,63075,93271	1 72370,34957	1 99277,53865	9,93700,42119,4756	10,23646,25624	52:48
	8,75960,12579	69,28887	59,93019	4,39831,5997	17,46114	
87	86488,87115,80692	1 72301,06070	1 99217,60846	9,93696,02287,8759	10,23628,79510	52:12
	8,76223,58594	69,24720	59,88809	4,40008,4552	17,45765	
86	86480,10892,22098	1 72231,81350	1 99157,72037	9,93691,62279,4207	10,23611,33745	51:36
	8,76487,01943	69,20558	59,84604	4,40185,3465	17,45418	
85	86471,34405,20155	1 72162,60792	1 99097,87433	9,93687,22094,0742	10,23593,88327	51: 0
	8,76750,42620	69,16401	59,80401	4,40362,2738	17,45070	
84	86462,57654,77535	1 72093,44391	1 99038,07032	9,93682,81731,8004	10,23576,43257	50:24
	8,77013,80627	69,12247	59,76204	4,40539,2369	17,44723	
83	86453,80640,96908	1 72024,32144	1 98978,30828	9,93678,41192,5635	10,23558,98534	49:48
	8,77277,15963	69,08098	59,72010	4,40716,2358	17,44376	
82	86445,03363,80945	1 71955,24046	1 98918,58818	9,93674,00476,3277	10,23541,54158	49:12
	8,77540,48625	69,03952	59,67821	4,40893,2708	17,44030	
81	86436,25823,32320	1 71886,20094	1 98858,90997	9,93669,59583,0569	10,23524,10128	48:36
	8,77803,78615	68,99811	59,63636	4,41070,3417	17,43683	
80	86427,48019,53705	1 71817,20283	1 98799,27361	9,93665,18512,7152	10,23506,66445	48: 0
	8,78067,05932	68,95675	59,59455	4,41247,4485	17,43338	
79	86418,69952,47773	1 71748,24608	1 98739,67906	9,93660,77265,2667	10,23489,23107	47:24
	8,78330,30572	68,91541	59,55278	4,41424,5913	17,42993	
78	86409,91622,17201	1 71679,33067	1 98680,12628	9,93656,35840,6754	10,23471,80114	46:48
	8,78593,52538	68,87413	59,51105	4,41601,7702	17,42647	
77	86401,13028,64663	1 71610,45654	1 98620,61523	9,93651,94238,9052	10,23454,37467	46:12
	8,78856,71828	68,83288	59,46937	4,41778,9851	17,42303	
76	86392,34171,92835	1 71541,62366	1 98561,14586	9,93647,52459,9201	10,23436,95164	45:36
	8,79119,88439	68,79168	59,42772	4,41956,2360	17,41959	
75	86383,55052,04396	1 71472,83198	1 98501,71814	9,93643,10503,6841	10,23419,53205	45: 0
	8,79383,02374	68,75052	59,38611	4,42133,5231	17,41614	
74	86374,75669,02022	1 71404,08146	1 98442,33203	9,93638,68370,1610	10,23402,11591	44:24
	8,79646,13629	68,70939	59,34455	4,42310,8462	17,41271	
73	86365,96022,88393	1 71335,37207	1 98382,98748	9,93634,26059,3148	10,23384,70320	43:48
	8,79909,22206	68,66831	59,30303	4,42488,2054	17,40927	
72	86357,16113,66187	1 71266,70376	1 98323,68445	9,93629,83571,1094	10,23367,29393	43:12
	8,80172,28100	68,62728	59,26154	4,42665,6008	17,40585	
71	86348,35941,38087	1 71198,07648	1 98264,42291	9,93625,40905,5086	10,23349,88808	42:36
	8,80435,31315	68,58627	59,22010	4,42843,0324	17,40242	
70	86339,55506,06772	1 71129,49021	1 98205,20281	9,93620,98062,4762	10,23332,48566	42: 0
	8,80698,31848	68,54531	59,17871	4,43020,5001	17,39900	
69	86330,74807,74924	1 71060,94490	1 98146,02410	9,93616,55041,9761	10,23315,08666	41:24
	8,80961,29697	68,50440	59,13734	4,43198,0041	17,39558	
68	86321,93846,45227	1 70992,44050	1 98086,88676	9,93612,11843,9720	10,23297,69108	40:48
	8,81224,24863	68,46352	59,09602	4,43375,5443	17,39216	
67	86313,12622,20364	1 70923,97698	1 98027,79074	9,93607,68468,4277	10,23280,29892	40:12
	8,81487,17345	68,42269	59,05474	4,43553,1207	17,38875	

GRAD. 59.

30. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	50497,96274,87963	58505,54250	1 15857,23328	9,70327,38576,2751	9,76719,70108	19:48
	15,06371,31982	23,42977	11,83332	12,95321,9484	17,38875	
34	50513,02646,19945	58528,97227	1 15869,06660	9,70340,33898,2235	9,76737,08983	20:24
	15,06217,44834	23,43456	11,83927	12,94803,4680	17,38534	
35	50528,08863,64779	58552,40683	1 15880,90587	9,70353,28701,6915	9,76754,47517	21: 0
	15,06063,53099	23,43935	11,84522	12,94285,2967	17,38194	
36	50543,14927,17878	58575,84618	1 15892,75109	9,70366,22986,9882	9,76771,85711	21:36
	15,05909,56774	23,44414	11,85117	12,93767,4343	17,37853	
37	50558,20836,74652	58599,29032	1 15904,60226	9,70379,16754,4225	9,76789,23564	22:12
	15,05755,55864	23,44894	11,85713	12,93249,8802	17,37514	
38	50573,26592,30516	58622,73926	1 15916,45939	9,70392,10004,3027	9,76806,61078	22:48
	15,05601,50366	23,45373	11,86309	12,92732,6342	17,37174	
39	50588,32193,80882	58646,19299	1 15928,32248	9,70405,02736,9369	9,76823,98252	23:24
	15,05447,40282	23,45854	11,86904	12,92215,6962	17,36835	
40	50603,37641,21164	58669,65153	1 15940,19152	9,70417,94952,6331	9,76841,35087	24: 0
	15,05293,25612	23,46334	11,87501	12,91699,0657	17,36496	
41	50618,42934,46776	58693,11487	1 15952,06653	9,70430,86651,6988	9,76858,71583	24:36
	15,05139,06357	23,46815	11,88098	12,91182,7423	17,36158	
42	50633,48073,53133	58716,58302	1 15963,94751	9,70443,77834,4411	9,76876,07741	25:12
	15,04984,82516	23,47296	11,88694	12,90666,7260	17,35820	
43	50648,53058,35649	58740,05598	1 15975,83445	9,70456,68501,1671	9,76893,43561	25:48
	15,04830,54092	23,47778	11,89292	12,90151,0161	17,35482	
44	50663,57888,89741	58763,53376	1 15987,72737	9,70469,58652,1832	9,76910,79043	26:24
	15,04676,21083	23,48259	11,89888	12,89635,6127	17,35144	
45	50678,62565,10824	58787,01635	1 15999,62625	9,70482,48287,7959	9,76928,14187	27: 0
	15,04521,83491	23,48740	11,90487	12,89120,5152	17,34808	
46	50693,67086,94315	58810,50375	1 16011,53112	9,70495,37408,3111	9,76945,48995	27:36
	15,04367,41316	23,49224	11,91084	12,88605,7235	17,34470	
47	50708,71454,35631	58833,99599	1 16023,44196	9,70508,26014,0346	9,76962,83465	28:12
	15,04212,94558	23,49705	11,91682	12,88091,2371	17,34135	
48	50723,75667,30189	58857,49304	1 16035,35878	9,70521,14105,2717	9,76980,17600	28:48
	15,04058,43218	23,50189	11,92281	12,87577,0559	17,33798	
49	50738,79725,73407	58880,99493	1 16047,28159	9,70534,01682,3276	9,76997,51398	29:24
	15,03903,87297	23,50671	11,92879	12,87063,1793	17,33462	
50	50753,83629,60704	58904,50164	1 16059,21038	9,70546,88745,5069	9,77014,84860	30: 0
	15,03749,26794	23,51155	11,93478	12,86549,6074	17,33127	
51	50768,87378,87498	58928,01319	1 16071,14516	9,70559,75295,1143	9,77032,17987	30:36
	15,03594,61711	23,51639	11,94077	12,86036,3396	17,32792	
52	50783,90973,49209	58951,52958	1 16083,08593	9,70572,61331,4539	9,77049,50779	31:12
	15,03439,92048	23,52122	11,94677	12,85523,3758	17,32458	
53	50798,94413,41257	58975,05080	1 16095,03270	9,70585,46854,8297	9,77066,83237	31:48
	15,03285,17804	23,52607	11,95276	12,85010,7154	17,32123	
54	50813,97698,59061	58998,57687	1 16106,98546	9,70598,31865,5451	9,77084,15360	32:24
	15,03130,38981	23,53091	11,95876	12,84498,3583	17,31789	
55	50829,00828,98042	59022,10778	1 16118,94422	9,70611,16363,9034	9,77101,47149	33: 0
	15,02975,55581	23,53577	11,96477	12,83986,3044	17,31455	
56	50844,03804,53623	59045,64355	1 16130,90899	9,70624,00350,2078	9,77118,78604	33:36
	15,02820,67600	23,54061	11,97076	12,83474,5530	17,31122	
57	50859,06625,21223	59069,18416	1 16142,87975	9,70636,83824,7608	9,77136,09726	34:12
	15,02665,75044	23,54547	11,97678	12,82963,1040	17,30789	
58	50874,09290,96267	59092,72963	1 16154,85653	9,70649,66787,8648	9,77153,40515	34:48
	15,02510,77908	23,55032	11,98278	12,82451,9572	17,30456	
59	50889,11801,74175	59116,27995	1 16166,83931	9,70662,49239,8220	9,77170,70971	35:24
	15,02355,76196	23,55519	11,98880	12,81941,1120	17,30124	
60	50904,14157,50371	59139,83514	1 16178,82811	9,70675,31180,9340	9,77188,01095	36: 0
	15,02200,69909	23,56005	11,99481	12,81430,5685	17,29792	
61	50919,16358,20280	59163,39519	1 16190,82292	9,70688,12611,5025	9,77205,30887	36:36
	15,02045,59044	23,56491	12,00082	12,80920,3261	17,29461	
62	50934,18403,79324	59186,96010	1 16202,82374	9,70700,93531,8286	9,77222,60348	37:12
	15,01890,43604	23,56979	12,00685	12,80410,3845	17,29129	
63	50949,20294,22928	59210,52989	1 16214,83059	9,70713,73942,2131	9,77239,89477	37:48
	15,01735,23590	23,57465	12,01287	12,79900,7437	17,28798	
64	50964,22029,46518	59234,10454	1 16226,84346	9,70726,53842,9568	9,77257,18275	38:24
	15,01579,99000	23,57953	12,01890	12,79391,4031	17,28468	
65	50979,23609,45518	59257,68407	1 16238,86236	9,70739,33234,3599	9,77274,46743	39: 0
	15,01424,69837	23,58441	12,02492	12,78882,3624	17,28137	
66	50994,25034,15355	59281,26848	1 16250,88728	9,70752,12116,7223	9,77291,74880	39:36
	15,01269,36101	23,58929	12,03095	12,78373,6216	17,27807	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	86313,12622,20364	1 70923,97698	1 98027,79074	9,93607,68468,4277	10,23280,29892	40:12
	8,81487,17345	68,42269	59,05474	4,43553,1207	17,38875	
66	86304,31135,03019	1 70855,55429	1 97968,73600	9,93603,24915,3070	10,23262,91017	39:36
	8,81750,07142	68,38189	59,01351	4,43730,7334	17,38534	
65	86295,49384,95877	1 70787,17240	1 97909,72249	9,93598,81184,5736	10,23245,52483	39: 0
	8,82012,94252	68,34114	58,97231	4,43908,3825	17,38194	
64	86286,67372,01625	1 70718,83126	1 97850,75018	9,93594,37276,1911	10,23228,14289	38:24
	8,82275,78676	68,30042	58,93115	4,44086,0678	17,37853	
63	86277,85096,22949	1 70650,53084	1 97791,81903	9,93589,93190,1233	10,23210,76436	37:48
	8,82538,60412	68,25975	58,89003	4,44263,7895	17,37514	
62	86269,02557,62537	1 70582,27109	1 97732,92900	9,93585,48926,3338	10,23193,38922	37:12
	8,82801,39461	68,21912	58,84896	4,44441,5475	17,37174	
61	86260,19756,23076	1 70514,05197	1 97674,08004	9,93581,04484,7863	10,23176,01748	36:36
	8,83064,15819	68,17852	58,80792	4,44619,3420	17,36835	
60	86251,36692,07257	1 70445,87345	1 97615,27212	9,93576,59865,4443	10,23158,64913	36: 0
	8,83326,89487	68,13797	58,76692	4,44797,1728	17,36496	
59	86242,53365,17770	1 70377,73548	1 97556,50520	9,93572,15068,2715	10,23141,28417	35:24
	8,83589,60466	68,09746	58,72597	4,44975,0400	17,36158	
58	86233,69775,57304	1 70309,63802	1 97497,77923	9,93567,70093,2315	10,23123,92259	34:48
	8,83852,28752	68,05699	58,68505	4,45152,9438	17,35820	
57	86224,85923,28552	1 70241,58103	1 97439,09418	9,93563,24940,2877	10,23106,56439	34:12
	8,84114,94346	68,01656	58,64417	4,45330,8840	17,35482	
56	86216,01808,34206	1 70173,56447	1 97380,45001	9,93558,79609,4037	10,23089,20957	33:36
	8,84377,57248	67,97617	58,60334	4,45508,8607	17,35144	
55	86207,17430,76958	1 70105,58830	1 97321,84667	9,93554,34100,5430	10,23071,85813	33: 0
	8,84640,17454	67,93581	58,56255	4,45686,8739	17,34808	
54	86198,32790,59504	1 70037,65249	1 97263,28412	9,93549,88413,6691	10,23054,51005	32:24
	8,84902,74966	67,89551	58,52178	4,45864,9236	17,34470	
53	86189,47887,84538	1 69969,75698	1 97204,76234	9,93545,42548,7455	10,23037,16535	31:48
	8,85165,29783	67,85523	58,48107	4,46043,0099	17,34135	
52	86180,62722,54755	1 69901,90175	1 97146,28127	9,93540,96505,7356	10,23019,82400	31:12
	8,85427,81903	67,81501	58,44040	4,46221,1329	17,33798	
51	86171,77294,72852	1 69834,08674	1 97087,84087	9,93536,50284,6027	10,23002,48602	30:36
	8,85690,31326	67,77481	58,39975	4,46399,2923	17,33462	
50	86162,91604,41526	1 69766,31193	1 97029,44112	9,93532,03885,3104	10,22985,15140	30: 0
	8,85952,78052	67,73466	58,35916	4,46577,4885	17,33127	
49	86154,05651,63474	1 69698,57727	1 96971,08196	9,93527,57307,8219	10,22967,82013	29:24
	8,86215,22077	67,69455	58,31860	4,46755,7213	17,32792	
48	86145,19436,41397	1 69630,88272	1 96912,76336	9,93523,10552,1006	10,22950,49221	28:48
	8,86477,63405	67,65448	58,27809	4,46933,9907	17,32458	
47	86136,32958,77992	1 69563,22824	1 96854,48527	9,93518,63618,1099	10,22933,16763	28:12
	8,86740,02030	67,61444	58,23760	4,47112,2969	17,32123	
46	86127,46218,75962	1 69495,61380	1 96796,24767	9,93514,16505,8130	10,22915,84640	27:36
	8,87002,37956	67,57446	58,19717	4,47290,6397	17,31789	
45	86118,59216,38006	1 69428,03934	1 96738,05050	9,93509,69215,1733	10,22898,52851	27: 0
	8,87264,71180	67,53450	58,15676	4,47469,0194	17,31455	
44	86109,71951,66826	1 69360,50484	1 96679,89374	9,93505,21746,1539	10,22881,21396	26:24
	8,87527,01699	67,49458	58,11641	4,47647,4357	17,31122	
43	86100,84424,65127	1 69293,01026	1 96621,77733	9,93500,74098,7182	10,22863,90274	25:48
	8,87789,29517	67,45472	58,07608	4,47825,8889	17,30789	
42	86091,96635,35610	1 69225,55554	1 96563,70125	9,93496,26272,8293	10,22846,59485	25:12
	8,88051,54630	67,41488	58,03580	4,48004,3788	17,30456	
41	86083,08583,80980	1 69158,14066	1 96505,66545	9,93491,78268,4505	10,22829,29029	24:36
	8,88313,77036	67,37508	57,99556	4,48182,9056	17,30124	
40	86074,20270,03944	1 69090,76558	1 96447,66989	9,93487,30085,5449	10,22811,98905	24: 0
	8,88575,96739	67,33533	57,95536	4,48361,4693	17,29792	
39	86065,31694,07205	1 69023,43025	1 96389,71453	9,93482,81724,0756	10,22794,69113	23:24
	8,88838,13733	67,29561	57,91519	4,48540,0698	17,29461	
38	86056,42855,93472	1 68956,13464	1 96331,79934	9,93478,33184,0058	10,22777,39652	22:48
	8,89100,28020	67,25594	57,87507	4,48718,7072	17,29129	
37	86047,53755,65452	1 68888,87870	1 96273,92427	9,93473,84465,2986	10,22760,10523	22:12
	8,89362,39599	67,21630	57,83498	4,48897,3815	17,28798	
36	86038,64393,25853	1 68821,66240	1 96216,08929	9,93469,35567,9171	10,22742,81725	21:36
	8,89624,48468	67,17669	57,79493	4,49076,0928	17,28468	
35	86029,74768,77385	1 68754,48571	1 96158,29436	9,93464,86491,8243	10,22725,53257	21: 0
	8,89886,54628	67,13714	57,75493	4,49254,8410	17,28137	
34	86020,84882,22757	1 68687,34857	1 96100,53943	9,93460,37236,9833	10,22708,25120	20:24
	8,90148,58078	67,09762	57,71495	4,49433,6262	17,27807	

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30. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	51009,26303,51456	59304,85777	1 16262,91823	9,70764,90490,3439	9,77309,02687	40:12
	15,01113,97790	23,59418	12,03699	12,77865,1801	17,27478	
68	51024,27417,49246	59328,45195	1 16274,95522	9,70777,68355,5240	9,77326,30165	40:48
	15,00958,54907	23,59906	12,04302	12,77357,0377	17,27148	
69	51039,28376,04153	59352,05101	1 16286,99824	9,70790,45712,5617	9,77343,57313	41:24
	15,00803,07453	23,60395	12,04905	12,76849,1942	17,26819	
70	51054,29179,11606	59375,65496	1 16299,04729	9,70803,22561,7559	9,77360,84132	42: 0
	15,00647,55426	23,60884	12,05510	12,76341,6492	17,26491	
71	51069,29826,67032	59399,26380	1 16311,10239	9,70815,98903,4051	9,77378,10623	42:36
	15,00491,98828	23,61374	12,06114	12,75834,4025	17,26163	
72	51084,30318,65860	59422,87754	1 16323,16353	9,70828,74737,8076	9,77395,36786	43:12
	15,00336,37659	23,61863	12,06719	12,75327,4536	17,25834	
73	51099,30655,03519	59446,49617	1 16335,23072	9,70841,50065,2612	9,77412,62620	43:48
	15,00180,71921	23,62354	12,07324	12,74820,8024	17,25507	
74	51114,30835,75440	59470,11971	1 16347,30396	9,70854,24886,0636	9,77429,88127	44:24
	15,00025,01612	23,62844	12,07929	12,74314,4487	17,25180	
75	51129,30860,77052	59493,74815	1 16359,38325	9,70866,99200,5123	9,77447,13307	45: 0
	14,99869,26734	23,63335	12,08534	12,73808,3918	17,24853	
76	51144,30730,03786	59517,38150	1 16371,46859	9,70879,73008,9041	9,77464,38160	45:36
	14,99713,47287	23,63826	12,09139	12,73302,6319	17,24526	
77	51159,30443,51073	59541,01976	1 16383,55998	9,70892,46311,5360	9,77481,62686	46:12
	14,99557,63272	23,64318	12,09746	12,72797,1684	17,24200	
78	51174,30001,14345	59564,66294	1 16395,65744	9,70905,19108,7044	9,77498,86886	46:48
	14,99401,74689	23,64809	12,10352	12,72292,0011	17,23874	
79	51189,29402,89034	59588,31103	1 16407,76096	9,70917,91400,7055	9,77516,10760	47:24
	14,99245,81538	23,65301	12,10958	12,71787,1296	17,23548	
80	51204,28648,70572	59611,96404	1 16419,87054	9,70930,63187,8351	9,77533,34308	48: 0
	14,99089,83820	23,65793	12,11565	12,71282,5538	17,23223	
81	51219,27738,54392	59635,62197	1 16431,98619	9,70943,34470,3889	9,77550,57531	48:36
	14,98933,81536	23,66286	12,12172	12,70778,2733	17,22898	
82	51234,26672,35928	59659,28483	1 16444,10791	9,70956,05248,6622	9,77567,80429	49:12
	14,98777,74686	23,66778	12,12779	12,70274,2879	17,22574	
83	51249,25450,10614	59682,95261	1 16456,23570	9,70968,75522,9501	9,77585,03003	49:48
	14,98621,63271	23,67272	12,13386	12,69770,5971	17,22249	
84	51264,24071,73885	59706,62533	1 16468,36956	9,70981,45293,5472	9,77602,25252	50:24
	14,98465,47290	23,67765	12,13994	12,69267,2008	17,21925	
85	51279,22537,21175	59730,30298	1 16480,50950	9,70994,14560,7480	9,77619,47177	51: 0
	14,98309,26745	23,68259	12,14603	12,68764,0987	17,21602	
86	51294,20846,47920	59753,98557	1 16492,65553	9,71006,83324,8467	9,77636,68779	51:36
	14,98153,01635	23,68753	12,15210	12,68261,2905	17,21278	
87	51309,18999,49555	59777,67310	1 16504,80763	9,71019,51586,1372	9,77653,90057	52:12
	14,97996,71962	23,69247	12,15819	12,67758,7758	17,20956	
88	51324,16996,21517	59801,36557	1 16516,96582	9,71032,19344,9130	9,77671,11013	52:48
	14,97840,37726	23,69742	12,16428	12,67256,5543	17,20633	
89	51339,14836,59243	59825,06299	1 16529,13010	9,71044,86601,4673	9,77688,31646	53:24
	14,97683,98927	23,70237	12,17037	12,66754,6261	17,20310	
90	51354,12520,58170	59848,76536	1 16541,30047	9,71057,53356,0934	9,77705,51956	54: 0
	14,97527,55566	23,70732	12,17646	12,66252,9903	17,19989	
91	51369,10048,13736	59872,47268	1 16553,47693	9,71070,19609,0837	9,77722,71945	54:36
	14,97371,07643	23,71227	12,18256	12,65751,6472	17,19667	
92	51384,07419,21379	59896,18495	1 16565,65949	9,71082,85360,7309	9,77739,91612	55:12
	14,97214,55160	23,71724	12,18866	12,65250,5960	17,19346	
93	51399,04633,76539	59919,90219	1 16577,84815	9,71095,50611,3269	9,77757,10958	55:48
	14,97057,98114	23,72219	12,19475	12,64749,8369	17,19024	
94	51414,01691,74653	59943,62438	1 16590,04290	9,71108,15361,1638	9,77774,29982	56:24
	14,96901,36509	23,72716	12,20086	12,64249,3692	17,18704	
95	51428,98593,11162	59967,35154	1 16602,24376	9,71120,79610,5330	9,77791,48686	57: 0
	14,96744,70344	23,73213	12,20697	12,63749,1929	17,18384	
96	51443,95337,81506	59991,08367	1 16614,45073	9,71133,43359,7259	9,77808,67070	57:36
	14,96587,99620	23,73709	12,21308	12,63249,3076	17,18064	
97	51458,91925,81126	60014,82076	1 16626,66381	9,71146,06609,0335	9,77825,85134	58:12
	14,96431,24337	23,74207	12,21919	12,62749,7129	17,17744	
98	51473,88357,05463	60038,56283	1 16638,88300	9,71158,69358,7464	9,77843,02878	58:48
	14,96274,44495	23,74705	12,22530	12,62250,4088	17,17425	
99	51488,84631,49958	60062,30988	1 16651,10830	9,71171,31609,1552	9,77860,20303	59:24
	14,96117,60096	23,75202	12,23142	12,61751,3947	17,17106	
100	51503,80749,10054	60086,06190	1 16663,33972	9,71183,93360,5499	9,77877,37409	60: 0
	14,95960,71139	23,75701	12,23754	12,61252,6706	17,16787	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	86011,94733,64679	1 68620,25095	1 96042,82448	9,93455,87803,3571	10,22690,97313	19:48
	8,90410,58814	67,05814	57,67503	4,49612,4485	17,27478	
32	86003,04323,05865	1 68553,19281	1 95985,14945	9,93451,38190,9086	10,22673,69835	19:12
	8,90672,56840	67,01869	57,63513	4,49791,3077	17,27148	
31	85994,13650,49025	1 68486,17412	1 95927,51432	9,93446,88399,6009	10,22656,42687	18:36
	8,90934,52152	66,97929	57,59528	4,49970,2040	17,26819	
30	85985,22715,96873	1 68419,19483	1 95869,91904	9,93442,38429,3969	10,22639,15868	18: 0
	8,91196,44749	66,93993	57,55546	4,50149,1374	17,26491	
29	85976,31519,52124	1 68352,25490	1 95812,36358	9,93437,88280,2595	10,22621,89377	17:24
	8,91458,34633	66,90060	57,51569	4,50328,1079	17,26163	
28	85967,40061,17491	1 68285,35430	1 95754,84789	9,93433,37952,1516	10,22604,63214	16:48
	8,91720,21800	66,86131	57,47595	4,50507,1155	17,25834	
27	85958,48340,95691	1 68218,49299	1 95697,37194	9,93428,87445,0361	10,22587,37380	16:12
	8,91982,06252	66,82206	57,43625	4,50686,1602	17,25507	
26	85949,56358,89439	1 68151,67093	1 95639,93569	9,93424,36758,8759	10,22570,11873	15:36
	8,92243,87986	66,78285	57,39659	4,50865,2421	17,25180	
25	85940,64115,01453	1 68084,88808	1 95582,53910	9,93419,85893,6338	10,22552,86693	15: 0
	8,92505,67003	66,74368	57,35697	4,51044,3612	17,24853	
24	85931,71609,34450	1 68018,14440	1 95525,18213	9,93415,34849,2726	10,22535,61840	14:24
	8,92767,43300	66,70454	57,31738	4,51223,5175	17,24526	
23	85922,78841,91150	1 67951,43986	1 95467,86475	9,93410,83625,7551	10,22518,37314	13:48
	8,93029,16878	66,66546	57,27784	4,51402,7111	17,24200	
22	85913,85812,74272	1 67884,77440	1 95410,58691	9,93406,32223,0440	10,22501,13114	13:12
	8,93290,87735	66,62639	57,23833	4,51581,9418	17,23874	
21	85904,92521,86537	1 67818,14801	1 95353,34858	9,93401,80641,1022	10,22483,89240	12:36
	8,93552,55873	66,58738	57,19886	4,51761,2099	17,23548	
20	85895,98969,30664	1 67751,56063	1 95296,14972	9,93397,28879,8923	10,22466,65692	12: 0
	8,93814,21287	66,54839	57,15943	4,51940,5152	17,23223	
19	85887,05155,09377	1 67685,01224	1 95238,99029	9,93392,76939,3771	10,22449,42469	11:24
	8,94075,83979	66,50946	57,12004	4,52119,8579	17,22898	
18	85878,11079,25398	1 67618,50278	1 95181,87025	9,93388,24819,5192	10,22432,19571	10:48
	8,94337,43947	66,47055	57,08068	4,52299,2380	17,22574	
17	85869,16741,81451	1 67552,03223	1 95124,78957	9,93383,72520,2812	10,22414,96997	10:12
	8,94599,01192	66,43169	57,04137	4,52478,6553	17,22249	
16	85860,22142,80259	1 67485,60054	1 95067,74820	9,93379,20041,6259	10,22397,74748	9:36
	8,94860,55710	66,39286	57,00209	4,52658,1101	17,21925	
15	85851,27282,24549	1 67419,20768	1 95010,74611	9,93374,67383,5158	10,22380,52823	9: 0
	8,95122,07504	66,35407	56,96284	4,52837,6024	17,21602	
14	85842,32160,17045	1 67352,85361	1 94953,78327	9,93370,14545,9134	10,22363,31221	8:24
	8,95383,56570	66,31532	56,92364	4,53017,1319	17,21278	
13	85833,36776,60475	1 67286,53829	1 94896,85963	9,93365,61528,7815	10,22346,09943	7:48
	8,95645,02909	66,27661	56,88448	4,53196,6991	17,20956	
12	85824,41131,57566	1 67220,26168	1 94839,97515	9,93361,08332,0824	10,22328,88987	7:12
	8,95906,46520	66,23793	56,84535	4,53376,3036	17,20633	
11	85815,45225,11046	1 67154,02375	1 94783,12980	9,93356,54955,7788	10,22311,68354	6:36
	8,96167,87401	66,19930	56,80626	4,53555,9457	17,20310	
10	85806,49057,23645	1 67087,82445	1 94726,32354	9,93352,01399,8331	10,22294,48044	6: 0
	8,96429,25554	66,16070	56,76721	4,53735,6253	17,19989	
9	85797,52627,98091	1 67021,66375	1 94669,55633	9,93347,47664,2078	10,22277,28055	5:24
	8,96690,60974	66,12213	56,72819	4,53915,3424	17,19667	
8	85788,55937,37117	1 66955,54162	1 94612,82814	9,93342,93748,8654	10,22260,08388	4:48
	8,96951,93663	66,08361	56,68921	4,54095,0972	17,19346	
7	85779,58985,43454	1 66889,45801	1 94556,13893	9,93338,39653,7682	10,22242,89042	4:12
	8,97213,23621	66,04513	56,65028	4,54274,8895	17,19024	
6	85770,61772,19833	1 66823,41288	1 94499,48865	9,93333,85378,8787	10,22225,70018	3:36
	8,97474,50845	66,00667	56,61137	4,54454,7194	17,18704	
5	85761,64297,68988	1 66757,40621	1 94442,87728	9,93329,30924,1593	10,22208,51314	3: 0
	8,97735,75336	65,96827	56,57251	4,54634,5870	17,18384	
4	85752,66561,93652	1 66691,43794	1 94386,30477	9,93324,76289,5723	10,22191,32930	2:24
	8,97996,97091	65,92989	56,53368	4,54814,4922	17,18064	
3	85743,68564,96561	1 66625,50805	1 94329,77109	9,93320,21475,0801	10,22174,14866	1:48
	8,98258,16111	65,89156	56,49489	4,54994,4351	17,17744	
2	85734,70306,80450	1 66559,61649	1 94273,27620	9,93315,66480,6450	10,22156,97122	1:12
	8,98519,32395	65,85326	56,45614	4,55174,4157	17,17425	
1	85725,71787,48055	1 66493,76323	1 94216,82006	9,93311,11306,2293	10,22139,79697	0:36
	8,98780,45943	65,81499	56,41742	4,55354,4341	17,17106	
0	85716,73007,02112	1 66427,94824	1 94160,40264	9,93306,55951,7952	10,22122,62591	0: 0
	8,99041,56751	65,77678	56,37874	4,55534,4903	17,16787	

GRAD. 59.

31. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
0	51503,80749,10054	60086,06190	1 16663,33972	9,71183,93360,5499	9,77877,37409	0: 0
	14,95960,71139	23,75701	12,23754	12,61252,6706	17,16787	
1	51518,76709,81193	60109,81891	1 16675,57726	9,71196,54613,2205	9,77894,54196	0:36
	14,95803,77625	23,76199	12,24366	12,60754,2361	17,16469	
2	51533,72513,58818	60133,58090	1 16687,82092	9,71209,15367,4566	9,77911,70665	1:12
	14,95646,79555	23,76698	12,24979	12,60256,0908	17,16151	
3	51548,68160,38373	60157,34788	1 16700,07071	9,71221,75623,5474	9,77928,86816	1:48
	14,95489,76928	23,77198	12,25592	12,59758,2345	17,15833	
4	51563,63650,15301	60181,11986	1 16712,32663	9,71234,35381,7819	9,77946,02649	2:24
	14,95332,69746	23,77696	12,26204	12,59260,6671	17,15515	
5	51578,58982,85047	60204,89682	1 16724,58867	9,71246,94642,4490	9,77963,18164	3: 0
	14,95175,58010	23,78197	12,26818	12,58763,3881	17,15199	
6	51593,54158,43057	60228,67879	1 16736,85685	9,71259,53405,8371	9,77980,33363	3:36
	14,95018,41718	23,78696	12,27432	12,58266,3972	17,14882	
7	51608,49176,84775	60252,46575	1 16749,13117	9,71272,11672,2343	9,77997,48245	4:12
	14,94861,20873	23,79197	12,28045	12,57769,6943	17,14566	
8	51623,44038,05648	60276,25772	1 16761,41162	9,71284,69441,9286	9,78014,62811	4:48
	14,94703,95473	23,79697	12,28660	12,57273,2790	17,14249	
9	51638,38742,01121	60300,05469	1 16773,69822	9,71297,26715,2076	9,78031,77060	5:24
	14,94546,65521	23,80198	12,29274	12,56777,1510	17,13934	
10	51653,33288,66642	60323,85667	1 16785,99096	9,71309,83492,3586	9,78048,90994	6: 0
	14,94389,31016	23,80700	12,29888	12,56281,3100	17,13619	
11	51668,27677,97658	60347,66367	1 16798,28984	9,71322,39773,6686	9,78066,04613	6:36
	14,94231,91959	23,81201	12,30504	12,55785,7559	17,13303	
12	51683,21909,89617	60371,47568	1 16810,59488	9,71334,95559,4245	9,78083,17916	7:12
	14,94074,48350	23,81703	12,31119	12,55290,4883	17,12989	
13	51698,15984,37967	60395,29271	1 16822,90607	9,71347,50849,9128	9,78100,30905	7:48
	14,93917,00190	23,82205	12,31734	12,54795,5068	17,12674	
14	51713,09901,38157	60419,11476	1 16835,22341	9,71360,05645,4196	9,78117,43579	8:24
	14,93759,47480	23,82708	12,32350	12,54300,8114	17,12360	
15	51728,03660,85637	60442,94184	1 16847,54691	9,71372,59946,2310	9,78134,55939	9: 0
	14,93601,90218	23,83210	12,32966	12,53806,4016	17,12046	
16	51742,97262,75855	60466,77394	1 16859,87657	9,71385,13752,6326	9,78151,67985	9:36
	14,93444,28408	23,83714	12,33582	12,53312,2771	17,11733	
17	51757,90707,04263	60490,61108	1 16872,21239	9,71397,67064,9097	9,78168,79718	10:12
	14,93286,62047	23,84217	12,34199	12,52818,4379	17,11420	
18	51772,83993,66310	60514,45325	1 16884,55438	9,71410,19883,3476	9,78185,91138	10:48
	14,93128,91139	23,84720	12,34815	12,52324,8833	17,11107	
19	51787,77122,57449	60538,30045	1 16896,90253	9,71422,72208,2309	9,78203,02245	11:24
	14,92971,15681	23,85225	12,35433	12,51831,6135	17,10794	
20	51802,70093,73130	60562,15270	1 16909,25686	9,71435,24039,8444	9,78220,13039	12: 0
	14,92813,35677	23,85729	12,36050	12,51338,6278	17,10482	
21	51817,62907,08807	60586,00999	1 16921,61736	9,71447,75378,4722	9,78237,23521	12:36
	14,92655,51124	23,86233	12,36668	12,50845,9262	17,10170	
22	51832,55562,59931	60609,87232	1 16933,98404	9,71460,26224,3984	9,78254,33691	13:12
	14,92497,62024	23,86739	12,37285	12,50353,5084	17,09859	
23	51847,48060,21955	60633,73971	1 16946,35689	9,71472,76577,9068	9,78271,43550	13:48
	14,92339,68379	23,87243	12,37904	12,49861,3739	17,09548	
24	51862,40399,90334	60657,61214	1 16958,73593	9,71485,26439,2807	9,78288,53098	14:24
	14,92181,70187	23,87749	12,38522	12,49369,5226	17,09237	
25	51877,32581,60521	60681,48963	1 16971,12115	9,71497,75808,8033	9,78305,62335	15: 0
	14,92023,67451	23,88255	12,39141	12,48877,9543	17,08926	
26	51892,24605,27972	60705,37218	1 16983,51256	9,71510,24686,7576	9,78322,71261	15:36
	14,91865,60168	23,88761	12,39760	12,48386,6686	17,08616	
27	51907,16470,88140	60729,25979	1 16995,91016	9,71522,73073,4262	9,78339,79877	16:12
	14,91707,48341	23,89268	12,40379	12,47895,6652	17,08306	
28	51922,08178,36481	60753,15247	1 17008,31395	9,71535,20969,0914	9,78356,88183	16:48
	14,91549,31971	23,89774	12,40999	12,47404,9440	17,07996	
29	51936,99727,68452	60777,05021	1 17020,72394	9,71547,68374,0354	9,78373,96179	17:24
	14,91391,11057	23,90281	12,41619	12,46914,5046	17,07687	
30	51951,91118,79509	60800,95302	1 17033,14013	9,71560,15288,5400	9,78391,03866	18: 0
	14,91232,85600	23,90789	12,42238	12,46424,3466	17,07379	
31	51966,82351,65109	60824,86091	1 17045,56251	9,71572,61712,8866	9,78408,11245	18:36
	14,91074,55600	23,91296	12,42859	12,45934,4700	17,07069	
32	51981,73426,20709	60848,77387	1 17057,99110	9,71585,07647,3566	9,78425,18314	19:12
	14,90916,21059	23,91804	12,43480	12,45444,8744	17,06761	
33	51996,64342,41768	60872,69191	1 17070,42590	9,71597,53092,2310	9,78442,25075	19:48
	14,90757,81975	23,92313	12,44101	12,44955,5595	17,06454	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
100	85716,73007,02112	1 66427,94824	1 94160,40264	9,93306,55951,7952	10,22122,62591	60: 0
	8,99041,56751	65,77678	56,37874	4,55534,4903	17,16787	
99	85707,73965,45361	1 66362,17146	1 94104,02390	9,93302,00417,3049	10,22105,45804	59:24
	8,99302,64822	65,73859	56,34010	4,55714,5841	17,16469	
98	85698,74662,80539	1 66296,43287	1 94047,68380	9,93297,44702,7208	10,22088,29335	58:48
	8,99563,70153	65,70043	56,30150	4,55894,7157	17,16151	
97	85689,75099,10386	1 66230,73244	1 93991,38230	9,93292,88808,0051	10,22071,13184	58:12
	8,99824,72743	65,66233	56,26293	4,56074,8853	17,15833	
96	85680,75274,37643	1 66165,07011	1 93935,11937	9,93288,32733,1198	10,22053,97351	57:36
	9,00085,72593	65,62425	56,22440	4,56255,0927	17,15515	
95	85671,75188,65050	1 66099,44586	1 93878,89497	9,93283,76478,0271	10,22036,81836	57: 0
	9,00346,69702	65,58622	56,18591	4,56435,3378	17,15199	
94	85662,74841,95348	1 66033,85964	1 93822,70906	9,93279,20042,6893	10,22019,66637	56:24
	9,00607,64066	65,54821	56,14745	4,56615,6210	17,14882	
93	85653,74234,31282	1 65968,31143	1 93766,56161	9,93274,63427,0683	10,22002,51755	55:48
	9,00868,55689	65,51025	56,10903	4,56795,9420	17,14566	
92	85644,73365,75593	1 65902,80118	1 93710,45258	9,93270,06631,1263	10,21985,37189	55:12
	9,01129,44566	65,47232	56,07064	4,56976,3010	17,14249	
91	85635,72236,31027	1 65837,32886	1 93654,38194	9,93265,49654,8253	10,21968,22940	54:36
	9,01390,30699	65,43443	56,03231	4,57156,6978	17,13934	
90	85626,70846,00328	1 65771,89443	1 93598,34963	9,93260,92498,1275	10,21951,09006	54: 0
	9,01651,14086	65,39658	55,99399	4,57337,1328	17,13619	
89	85617,69194,86242	1 65706,49785	1 93542,35564	9,93256,35160,9947	10,21933,95387	53:24
	9,01911,94726	65,35877	55,95571	4,57517,6057	17,13303	
88	85608,67282,91516	1 65641,13908	1 93486,39993	9,93251,77643,3890	10,21916,82084	52:48
	9,02172,72619	65,32098	55,91749	4,57698,1166	17,12989	
87	85599,65110,18897	1 65575,81810	1 93430,48244	9,93247,19945,2724	10,21899,69095	52:12
	9,02433,47764	65,28325	55,87928	4,57878,6657	17,12674	
86	85590,62676,71133	1 65510,53485	1 93374,60316	9,93242,62066,6067	10,21882,56421	51:36
	9,02694,20160	65,24553	55,84112	4,58059,2526	17,12360	
85	85581,59982,50973	1 65445,28932	1 93318,76204	9,93238,04007,3541	10,21865,44061	51: 0
	9,02954,89806	65,20787	55,80299	4,58239,8779	17,12046	
84	85572,57027,61167	1 65380,08145	1 93262,95905	9,93233,45767,4762	10,21848,32015	50:24
	9,03215,56701	65,17023	55,76490	4,58420,5411	17,11733	
83	85563,53812,04466	1 65314,91122	1 93207,19415	9,93228,87346,9351	10,21831,20282	49:48
	9,03476,20845	65,13264	55,72685	4,58601,2426	17,11420	
82	85554,50335,83621	1 65249,77858	1 93151,46730	9,93224,28745,6925	10,21814,08862	49:12
	9,03736,82238	65,09508	55,68883	4,58781,9821	17,11107	
81	85545,46599,01383	1 65184,68350	1 93095,77847	9,93219,69963,7104	10,21796,97755	48:36
	9,03997,40876	65,05756	55,65085	4,58962,7599	17,10794	
80	85536,42601,60507	1 65119,62594	1 93040,12762	9,93215,11000,9505	10,21779,86961	48: 0
	9,04257,96762	65,02007	55,61290	4,59143,5760	17,10482	
79	85527,38343,63745	1 65054,60587	1 92984,51472	9,93210,51857,3745	10,21762,76479	47:24
	9,04518,49893	64,98261	55,57500	4,59324,4301	17,10170	
78	85518,33825,13852	1 64989,62326	1 92928,93972	9,93205,92532,9444	10,21745,66309	46:48
	9,04779,00268	64,94521	55,53712	4,59505,3227	17,09859	
77	85509,29046,13584	1 64924,67805	1 92873,40260	9,93201,33027,6217	10,21728,56450	46:12
	9,05039,47887	64,90782	55,49928	4,59686,2534	17,09548	
76	85500,24006,65697	1 64859,77023	1 92817,90332	9,93196,73341,3683	10,21711,46902	45:36
	9,05299,92750	64,87049	55,46149	4,59867,2225	17,09237	
75	85491,18706,72947	1 64794,89974	1 92762,44183	9,93192,13474,1458	10,21694,37665	45: 0
	9,05560,34855	64,83318	55,42372	4,60048,2299	17,08926	
74	85482,13146,38092	1 64730,06656	1 92707,01811	9,93187,53425,9159	10,21677,28739	44:24
	9,05820,74201	64,79591	55,38599	4,60229,2757	17,08616	
73	85473,07325,63891	1 64665,27065	1 92651,63212	9,93182,93196,6402	10,21660,20123	43:48
	9,06081,10788	64,75867	55,34829	4,60410,3599	17,08306	
72	85464,01244,53103	1 64600,51198	1 92596,28383	9,93178,32786,2803	10,21643,11817	43:12
	9,06341,44615	64,72148	55,31064	4,60591,4823	17,07996	
71	85454,94903,08488	1 64535,79050	1 92540,97319	9,93173,72194,7980	10,21626,03821	42:36
	9,06601,75681	64,68432	55,27302	4,60772,6433	17,07687	
70	85445,88301,32807	1 64471,10618	1 92485,70017	9,93169,11422,1547	10,21608,96134	42: 0
	9,06862,03985	64,64719	55,23544	4,60953,8428	17,07379	
69	85436,81439,28822	1 64406,45899	1 92430,46473	9,93164,50468,3119	10,21591,88755	41:24
	9,07122,29527	64,61010	55,19788	4,61135,0806	17,07069	
68	85427,74316,99295	1 64341,84889	1 92375,26685	9,93159,89333,2313	10,21574,81686	40:48
	9,07382,52306	64,57305	55,16037	4,61316,3569	17,06761	
67	85418,66934,46989	1 64277,27584	1 92320,10648	9,93155,28016,8744	10,21557,74925	40:12
	9,07642,72320	64,53603	55,12289	4,61497,6719	17,06454	

GRAD. 58.

31. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	51996,64342,41768	60872,69191	1 17070,42590	9,71597,53092,2310	9,78442,25075	19:48
	14,90757,81975	23,92313	12,44101	12,44955,5595	17,06454	
34	52011,55100,23743	60896,61504	1 17082,86691	9,71609,98047,7905	9,78459,31529	20:24
	14,90599,38351	23,92821	12,44721	12,44466,5250	17,06145	
35	52026,45699,62094	60920,54325	1 17095,31412	9,71622,42514,3155	9,78476,37674	21: 0
	14,90440,90186	23,93330	12,45343	12,43977,7707	17,05838	
36	52041,36140,52280	60944,47655	1 17107,76755	9,71634,86492,0862	9,78493,43512	21:36
	14,90282,37480	23,93839	12,45965	12,43489,2964	17,05531	
37	52056,26422,89760	60968,41494	1 17120,22720	9,71647,29981,3826	9,78510,49043	22:12
	14,90123,80236	23,94349	12,46587	12,43001,1017	17,05225	
38	52071,16546,69996	60992,35843	1 17132,69307	9,71659,72982,4843	9,78527,54268	22:48
	14,89965,18451	23,94858	12,47209	12,42513,1863	17,04918	
39	52086,06511,88447	61016,30701	1 17145,16516	9,71672,15495,6706	9,78544,59186	23:24
	14,89806,52129	23,95369	12,47832	12,42025,5501	17,04612	
40	52100,96318,40576	61040,26070	1 17157,64348	9,71684,57521,2207	9,78561,63798	24: 0
	14,89647,81268	23,95879	12,48455	12,41538,1927	17,04306	
41	52115,85966,21844	61064,21949	1 17170,12803	9,71696,99059,4134	9,78578,68104	24:36
	14,89489,05870	23,96390	12,49077	12,41051,1139	17,04001	
42	52130,75455,27714	61088,18339	1 17182,61880	9,71709,40110,5273	9,78595,72105	25:12
	14,89330,25933	23,96901	12,49701	12,40564,3133	17,03695	
43	52145,64785,53647	61112,15240	1 17195,11581	9,71721,80674,8406	9,78612,75800	25:48
	14,89171,41461	23,97412	12,50325	12,40077,7909	17,03391	
44	52160,53956,95108	61136,12652	1 17207,61906	9,71734,20752,6315	9,78629,79191	26:24
	14,89012,52452	23,97924	12,50949	12,39591,5461	17,03086	
45	52175,42969,47560	61160,10576	1 17220,12855	9,71746,60344,1776	9,78646,82277	27: 0
	14,888853,58907	23,98436	12,51572	12,39105,5789	17,02782	
46	52190,31823,06467	61184,09012	1 17232,64427	9,71758,99449,7565	9,78663,85059	27:36
	14,88694,60827	23,98948	12,52198	12,38619,8888	17,02478	
47	52205,20517,67294	61208,07960	1 17245,16625	9,71771,38069,6453	9,78680,87537	28:12
	14,88535,58212	23,99461	12,52822	12,38134,4758	17,02175	
48	52220,09053,25506	61232,07421	1 17257,69447	9,71783,76204,1211	9,78697,89712	28:48
	14,88376,51063	23,99973	12,53447	12,37649,3394	17,01871	
49	52234,97429,76569	61256,07394	1 17270,22894	9,71796,13853,4605	9,78714,91583	29:24
	14,88217,39380	24,00487	12,54072	12,37164,4795	17,01569	
50	52249,85647,15949	61280,07881	1 17282,76966	9,71808,51017,9400	9,78731,93152	30: 0
	14,88058,23163	24,01001	12,54698	12,36679,8957	17,01266	
51	52264,73705,39112	61304,08882	1 17295,31664	9,71820,87697,8357	9,78748,94418	30:36
	14,87899,02415	24,01514	12,55324	12,36195,5879	17,00963	
52	52279,61604,41527	61328,10396	1 17307,86988	9,71833,23893,4236	9,78765,95381	31:12
	14,87739,77132	24,02029	12,55950	12,35711,5556	17,00662	
53	52294,49344,18659	61352,12425	1 17320,42938	9,71845,59604,9792	9,78782,96043	31:48
	14,87580,47319	24,02543	12,56576	12,35227,7988	17,00360	
54	52309,36924,65978	61376,14968	1 17332,99514	9,71857,94832,7780	9,78799,96403	32:24
	14,87421,12974	24,03058	12,57203	12,34744,3170	17,00058	
55	52324,24345,78952	61400,18026	1 17345,56717	9,71870,29577,0950	9,78816,96461	33: 0
	14,87261,74098	24,03572	12,57830	12,34261,1100	16,99758	
56	52339,11607,53050	61424,21598	1 17358,14547	9,71882,63838,2050	9,78833,96219	33:36
	14,87102,30691	24,04089	12,58458	12,33778,1777	16,99456	
57	52353,98709,83741	61448,25687	1 17370,73005	9,71894,97616,3827	9,78850,95675	34:12
	14,86942,82755	24,04604	12,59085	12,33295,5197	16,99157	
58	52368,85652,66496	61472,30291	1 17383,32090	9,71907,30911,9024	9,78867,94832	34:48
	14,86783,30289	24,05120	12,59712	12,32813,1357	16,98856	
59	52383,72435,96785	61496,35411	1 17395,91802	9,71919,63725,0381	9,78884,93688	35:24
	14,86623,73294	24,05636	12,60341	12,32331,0255	16,98557	
60	52398,59059,70079	61520,41047	1 17408,52143	9,71931,96056,0636	9,78901,92245	36: 0
	14,86464,11771	24,06153	12,60969	12,31849,1888	16,98257	
61	52413,45523,81850	61544,47200	1 17421,13112	9,71944,27905,2524	9,78918,90502	36:36
	14,86304,45719	24,06670	12,61598	12,31367,6254	16,97957	
62	52428,31828,27569	61568,53870	1 17433,74710	9,71956,59272,8778	9,78935,88459	37:12
	14,86144,75140	24,07187	12,62227	12,30886,3349	16,97659	
63	52443,17973,02709	61592,61057	1 17446,36937	9,71968,90159,2127	9,78952,86118	37:48
	14,85985,00035	24,07705	12,62855	12,30405,3173	16,97361	
64	52458,03958,02744	61616,68762	1 17458,99792	9,71981,20564,5300	9,78969,83479	38:24
	14,85825,20401	24,08223	12,63486	12,29924,5722	16,97062	
65	52472,89783,23145	61640,76985	1 17471,63278	9,71993,50489,1022	9,78986,80541	39: 0
	14,85665,36243	24,08741	12,64115	12,29444,0991	16,96764	
66	52487,75448,59388	61664,85726	1 17484,27393	9,72005,79933,2013	9,79003,77305	39:36
	14,85505,47559	24,09260	12,64745	12,28963,8981	16,96467	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	85418,66934,46989	1 64277,27584	1 92320,10648	9,93155,28016,8744	10,21557,74925	40:12
	9,07642,72320	64,53603	55,12289	4,61497,6719	17,06454	
66	85409,59291,74669	1 64212,73981	1 92264,98359	9,93150,66519,2025	10,21540,68471	39:36
	9,07902,89570	64,49905	55,08545	4,61679,0252	17,06145	
65	85400,51388,85099	1 64148,24076	1 92209,89814	9,93146,04840,1773	10,21523,62326	39: 0
	9,08163,04054	64,46210	55,04804	4,61860,4173	17,05838	
64	85391,43225,81045	1 64083,77866	1 92154,85010	9,93141,42979,7600	10,21506,56488	38:24
	9,08423,15772	64,42519	55,01066	4,62041,8478	17,05531	
63	85382,34802,65273	1 64019,35347	1 92099,83944	9,93136,80937,9122	10,21489,50957	37:48
	9,08683,24722	64,38832	54,97334	4,62223,3170	17,05225	
62	85373,26119,40551	1 63954,96515	1 92044,86610	9,93132,18714,5952	10,21472,45732	37:12
	9,08943,30905	64,35148	54,93603	4,62404,8248	17,04918	
61	85364,17176,09646	1 63890,61367	1 91989,93007	9,93127,56309,7704	10,21455,40814	36:36
	9,09203,34319	64,31467	54,89876	4,62586,3712	17,04612	
60	85355,07972,75327	1 63826,29900	1 91935,03131	9,93122,93723,3992	10,21438,36202	36: 0
	9,09463,34962	64,27790	54,86153	4,62767,9564	17,04306	
59	85345,98509,40365	1 63762,02110	1 91880,16978	9,93118,30955,4428	10,21421,31896	35:24
	9,09723,32836	64,24118	54,82434	4,62949,5803	17,04001	
58	85336,88786,07529	1 63697,77992	1 91825,34544	9,93113,68005,8625	10,21404,27895	34:48
	9,09983,27939	64,20447	54,78718	4,63131,2428	17,03695	
57	85327,78802,79590	1 63633,57545	1 91770,55826	9,93109,04874,6197	10,21387,24200	34:12
	9,10243,20270	64,16781	54,75005	4,63312,9441	17,03391	
56	85318,68559,59320	1 63569,40764	1 91715,80821	9,93104,41561,6756	10,21370,20809	33:36
	9,10503,09827	64,13118	54,71297	4,63494,6842	17,03086	
55	85309,58056,49493	1 63505,27646	1 91661,09524	9,93099,78066,9914	10,21353,17723	33: 0
	9,10762,96611	64,09459	54,67591	4,63676,4631	17,02782	
54	85300,47293,52882	1 63441,18187	1 91606,41933	9,93095,14390,5283	10,21336,14941	32:24
	9,11022,80622	64,05804	54,63889	4,63858,2808	17,02478	
53	85291,36270,72260	1 63377,12383	1 91551,78044	9,93090,50532,2475	10,21319,12463	31:48
	9,11282,61856	64,02151	54,60190	4,64040,1374	17,02175	
52	85282,24988,10404	1 63313,10232	1 91497,17854	9,93085,86492,1101	10,21302,10288	31:12
	9,11542,40315	63,98503	54,56496	4,64222,0327	17,01871	
51	85273,13445,70089	1 63249,11729	1 91442,61358	9,93081,22270,0774	10,21285,08417	30:36
	9,11802,15997	63,94858	54,52804	4,64403,9671	17,01569	
50	85264,01643,54092	1 63185,16871	1 91388,08554	9,93076,57866,1103	10,21268,06848	30: 0
	9,12061,88901	63,91216	54,49116	4,64585,9403	17,01266	
49	85254,89581,65191	1 63121,25655	1 91333,59438	9,93071,93280,1700	10,21251,05582	29:24
	9,12321,59029	63,87578	54,45431	4,64767,9525	17,00963	
48	85245,77260,06162	1 63057,38077	1 91279,14007	9,93067,28512,2175	10,21234,04619	28:48
	9,12581,26375	63,83943	54,41751	4,64950,0035	17,00662	
47	85236,64678,79787	1 62993,54134	1 91224,72256	9,93062,63562,2140	10,21217,03957	28:12
	9,12840,90942	63,80312	54,38073	4,65132,0937	17,00360	
46	85227,51837,88845	1 62929,73822	1 91170,34183	9,93057,98430,1203	10,21200,03597	27:36
	9,13100,52730	63,76684	54,34398	4,65314,2228	17,00058	
45	85218,38737,36115	1 62865,97138	1 91115,99785	9,93053,33115,8975	10,21183,03539	27: 0
	9,13360,11734	63,73060	54,30729	4,65496,3909	16,99758	
44	85209,25377,24381	1 62802,24078	1 91061,69056	9,93048,67619,5066	10,21166,03781	26:24
	9,13619,67958	63,69440	54,27061	4,65678,5981	16,99456	
43	85200,11757,56423	1 62738,54638	1 91007,41995	9,93044,01940,9085	10,21149,04325	25:48
	9,13879,21397	63,65822	54,23397	4,65860,8444	16,99157	
42	85190,97878,35026	1 62674,88816	1 90953,18598	9,93039,36080,0641	10,21132,05168	25:12
	9,14138,72053	63,62209	54,19737	4,66043,1298	16,98856	
41	85181,83739,62973	1 62611,26607	1 90898,98861	9,93034,70036,9343	10,21115,06312	24:36
	9,14398,19925	63,58598	54,16080	4,66225,4543	16,98557	
40	85172,69341,43048	1 62547,68009	1 90844,82781	9,93030,03811,4800	10,21098,07755	24: 0
	9,14657,65011	63,54992	54,12427	4,66407,8179	16,98257	
39	85163,54683,78037	1 62484,13017	1 90790,70354	9,93025,37403,6621	10,21081,09498	23:24
	9,14917,07311	63,51388	54,08777	4,66590,2208	16,97957	
38	85154,39766,70726	1 62420,61629	1 90736,61577	9,93020,70813,4413	10,21064,11541	22:48
	9,15176,46824	63,47788	54,05130	4,66772,6627	16,97659	
37	85145,24590,23902	1 62357,13841	1 90682,56447	9,93016,04040,7786	10,21047,13882	22:12
	9,15435,83548	63,44191	54,01487	4,66955,1441	16,97361	
36	85136,09154,40354	1 62293,69650	1 90628,54960	9,93011,37085,6345	10,21030,16521	21:36
	9,15695,17486	63,40599	53,97848	4,67137,6645	16,97062	
35	85126,93459,22868	1 62230,29051	1 90574,57112	9,93006,69947,9700	10,21013,19459	21: 0
	9,15954,48632	63,37009	53,94211	4,67320,2243	16,96764	
34	85117,77504,74236	1 62166,92042	1 90520,62901	9,93002,02627,7457	10,20996,22695	20:24
	9,16213,76989	63,33423	53,90578	4,67502,8234	16,96467	

GRAD. 58.

31. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	52502,60954,06947	61688,94986	1 17496,92138	9,72018,08897,0994	9,79020,73772	40:12
	14,85345,54349	24,09778	12,65376	12,28483,9688	16,96170	
68	52517,46299,61296	61713,04764	1 17509,57514	9,72030,37381,0682	9,79037,69942	40:48
	14,85185,56615	24,10298	12,66006	12,28004,3109	16,95872	
69	52532,31485,17911	61737,15062	1 17522,23520	9,72042,65385,3791	9,79054,65814	41:24
	14,85025,54357	24,10817	12,66637	12,27524,9242	16,95576	
70	52547,16510,72268	61761,25879	1 17534,90157	9,72054,92910,3033	9,79071,61390	42: 0
	14,84865,47575	24,11336	12,67268	12,27045,8083	16,95279	
71	52562,01376,19843	61785,37215	1 17547,57425	9,72067,19956,1116	9,79088,56669	42:36
	14,84705,36270	24,11857	12,67900	12,26566,9633	16,94984	
72	52576,86081,56113	61809,49072	1 17560,25325	9,72079,46523,0749	9,79105,51653	43:12
	14,84545,20443	24,12378	12,68531	12,26088,3886	16,94687	
73	52591,70626,76556	61833,61450	1 17572,93856	9,72091,72611,4635	9,79122,46340	43:48
	14,84385,00092	24,12898	12,69164	12,25610,0839	16,94392	
74	52606,55011,76648	61857,74348	1 17585,63020	9,72103,98221,5474	9,79139,40732	44:24
	14,84224,75222	24,13419	12,69795	12,25132,0493	16,94098	
75	52621,39236,51870	61881,87767	1 17598,32815	9,72116,23353,5967	9,79156,34830	45: 0
	14,84064,45828	24,13941	12,70428	12,24654,2841	16,93802	
76	52636,23300,97698	61906,01708	1 17611,03243	9,72128,48007,8808	9,79173,28632	45:36
	14,83904,11915	24,14462	12,71062	12,24176,7885	16,93508	
77	52651,07205,09613	61930,16170	1 17623,74305	9,72140,72184,6693	9,79190,22140	46:12
	14,83743,73481	24,14984	12,71694	12,23699,5619	16,93213	
78	52665,90948,83094	61954,31154	1 17636,45999	9,72152,95884,2312	9,79207,15353	46:48
	14,83583,30528	24,15507	12,72328	12,23222,6042	16,92920	
79	52680,74532,13622	61978,46661	1 17649,18327	9,72165,19106,8354	9,79224,08273	47:24
	14,83422,83056	24,16029	12,72961	12,22745,9151	16,92626	
80	52695,57954,96678	62002,62690	1 17661,91288	9,72177,41852,7505	9,79241,00899	48: 0
	14,83262,31063	24,16552	12,73595	12,22269,4942	16,92333	
81	52710,41217,27741	62026,79242	1 17674,64883	9,72189,64122,2447	9,79257,93232	48:36
	14,83101,74554	24,17076	12,74230	12,21793,3416	16,92040	
82	52725,24319,02295	62050,96318	1 17687,39113	9,72201,85915,5863	9,79274,85272	49:12
	14,82941,13527	24,17599	12,74864	12,21317,4567	16,91747	
83	52740,07260,15822	62075,13917	1 17700,13977	9,72214,07233,0430	9,79291,77019	49:48
	14,82780,47982	24,18123	12,75500	12,20841,8395	16,91455	
84	52754,90040,63804	62099,32040	1 17712,89477	9,72226,28074,8825	9,79308,68474	50:24
	14,82619,77920	24,18647	12,76134	12,20366,4895	16,91163	
85	52769,72660,41724	62123,50687	1 17725,65611	9,72238,48441,3720	9,79325,59637	51: 0
	14,82459,03342	24,19172	12,76769	12,19891,4066	16,90871	
86	52784,55119,45066	62147,69859	1 17738,42380	9,72250,68332,7786	9,79342,50508	51:36
	14,82298,24249	24,19696	12,77406	12,19416,5906	16,90579	
87	52799,37417,69315	62171,89555	1 17751,19786	9,72262,87749,3692	9,79359,41087	52:12
	14,82137,40639	24,20222	12,78041	12,18942,0410	16,90289	
88	52814,19555,09954	62196,09777	1 17763,97827	9,72275,06691,4102	9,79376,31376	52:48
	14,81976,52516	24,20748	12,78678	12,18467,7579	16,89998	
89	52829,01531,62470	62220,30525	1 17776,76505	9,72287,25159,1681	9,79393,21374	53:24
	14,81815,59877	24,21273	12,79314	12,17993,7408	16,89707	
90	52843,83347,22347	62244,51798	1 17789,55819	9,72299,43152,9089	9,79410,11081	54: 0
	14,81654,62725	24,21799	12,79951	12,17519,9894	16,89417	
91	52858,65001,85072	62268,73597	1 17802,35770	9,72311,60672,8983	9,79427,00498	54:36
	14,81493,61060	24,22326	12,80588	12,17046,5037	16,89127	
92	52873,46495,46132	62292,95923	1 17815,16358	9,72323,77719,4020	9,79443,89625	55:12
	14,81332,54881	24,22852	12,81225	12,16573,2832	16,88838	
93	52888,27828,01013	62317,18775	1 17827,97583	9,72335,94292,6852	9,79460,78463	55:48
	14,81171,44190	24,23380	12,81864	12,16100,3278	16,88548	
94	52903,08999,45203	62341,42155	1 17840,79447	9,72348,10393,0130	9,79477,67011	56:24
	14,81010,28988	24,23907	12,82501	12,15627,6371	16,88259	
95	52917,90009,74191	62365,66062	1 17853,61948	9,72360,26020,6501	9,79494,55270	57: 0
	14,80849,09273	24,24434	12,83139	12,15155,2111	16,87971	
96	52932,70858,83464	62389,90496	1 17866,45087	9,72372,41175,8612	9,79511,43241	57:36
	14,80687,85048	24,24963	12,83778	12,14683,0493	16,87682	
97	52947,51546,68512	62414,15459	1 17879,28865	9,72384,55858,9105	9,79528,30923	58:12
	14,80526,56313	24,25491	12,84417	12,14211,1516	16,87394	
98	52962,32073,24825	62438,40950	1 17892,13282	9,72396,70070,0621	9,79545,18317	58:48
	14,80365,23067	24,26020	12,85056	12,13739,5176	16,87107	
99	52977,12438,47892	62462,66970	1 17904,98338	9,72408,83809,5797	9,79562,05424	59:24
	14,80203,85313	24,26549	12,85696	12,13268,1472	16,86819	
100	52991,92642,33205	62486,93519	1 17917,84034	9,72420,97077,7269	9,79578,92243	60: 0
	14,80042,43049	24,27078	12,86335	12,12797,0401	16,86531	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	85108,61290,97247	1 62103,58619	1 90466,72323	9,92997,35124,9223	10,20979,26228	19:48
	9,16473,02555	63,29840	53,86950	4,67685,4617	16,96170	
32	85099,44817,94692	1 62040,28779	1 90412,85373	9,92992,67439,4606	10,20962,30058	19:12
	9,16732,25330	63,26261	53,83323	4,67868,1394	16,95872	
31	85090,28085,69362	1 61977,02518	1 90359,02050	9,92987,99571,3212	10,20945,34186	18:36
	9,16991,45311	63,22685	53,79700	4,68050,8565	16,95576	
30	85081,11094,24051	1 61913,79833	1 90305,22350	9,92983,31520,4647	10,20928,38610	18: 0
	9,17250,62499	63,19112	53,76081	4,68233,6130	16,95279	
29	85071,93843,61552	1 61850,60721	1 90251,46269	9,92978,63286,8517	10,20911,43331	17:24
	9,17509,76894	63,15543	53,72466	4,68416,4088	16,94984	
28	85062,76333,84658	1 61787,45178	1 90197,73803	9,92973,94870,4429	10,20894,48347	16:48
	9,17768,88494	63,11978	53,68853	4,68599,2442	16,94687	
27	85053,58564,96164	1 61724,33200	1 90144,04950	9,92969,26271,1987	10,20877,53660	16:12
	9,18027,97297	63,08415	53,65244	4,68782,1189	16,94392	
26	85044,40536,98867	1 61661,24785	1 90090,39706	9,92964,57489,0798	10,20860,59268	15:36
	9,18287,03304	63,04857	53,61638	4,68965,0332	16,94098	
25	85035,22249,95563	1 61598,19928	1 90036,78068	9,92959,88524,0466	10,20843,65170	15: 0
	9,18546,06514	63,01301	53,58036	4,69147,9870	16,93802	
24	85026,03703,89049	1 61535,18627	1 89983,20032	9,92955,19376,0596	10,20826,71368	14:24
	9,18805,06927	62,97749	53,54437	4,69330,9802	16,93508	
23	85016,84898,82122	1 61472,20878	1 89929,65595	9,92950,50045,0794	10,20809,77860	13:48
	9,19064,04539	62,94200	53,50842	4,69514,0131	16,93213	
22	85007,65834,77583	1 61409,26678	1 89876,14753	9,92945,80531,0663	10,20792,84647	13:12
	9,19322,99353	62,90655	53,47249	4,69697,0855	16,92920	
21	84998,46511,78230	1 61346,36023	1 89822,67504	9,92941,10833,9808	10,20775,91727	12:36
	9,19581,91366	62,87113	53,43661	4,69880,1976	16,92626	
20	84989,26929,86864	1 61283,48910	1 89769,23843	9,92936,40953,7832	10,20758,99101	12: 0
	9,19840,80578	62,83575	53,40075	4,70063,3492	16,92333	
19	84980,07089,06286	1 61220,65335	1 89715,83768	9,92931,70890,4340	10,20742,06768	11:24
	9,20099,66988	62,80039	53,36493	4,70246,5405	16,92040	
18	84970,86989,39298	1 61157,85296	1 89662,47275	9,92927,00643,8935	10,20725,14728	10:48
	9,20358,50594	62,76507	53,32914	4,70429,7716	16,91747	
17	84961,66630,88704	1 61095,08789	1 89609,14361	9,92922,30214,1219	10,20708,22981	10:12
	9,20617,31399	62,72979	53,29339	4,70613,0422	16,91455	
16	84952,46013,57305	1 61032,35810	1 89555,85022	9,92917,59601,0797	10,20691,31526	9:36
	9,20876,09397	62,69454	53,25766	4,70796,3526	16,91163	
15	84943,25137,47908	1 60969,66356	1 89502,59256	9,92912,88804,7271	10,20674,40363	9: 0
	9,21134,84591	62,65932	53,22198	4,70979,7028	16,90871	
14	84934,04002,63317	1 60907,00424	1 89449,37058	9,92908,17825,0243	10,20657,49492	8:24
	9,21393,56980	62,62414	53,18633	4,71163,0927	16,90579	
13	84924,82609,06337	1 60844,38010	1 89396,18425	9,92903,46661,9316	10,20640,58913	7:48
	9,21652,26561	62,58899	53,15070	4,71346,5224	16,90289	
12	84915,60956,79776	1 60781,79111	1 89343,03355	9,92898,75315,4092	10,20623,68624	7:12
	9,21910,93334	62,55387	53,11512	4,71529,9920	16,89998	
11	84906,39045,86442	1 60719,23724	1 89289,91843	9,92894,03785,4172	10,20606,78626	6:36
	9,22169,57301	62,51878	53,07956	4,71713,5013	16,89707	
10	84897,16876,29141	1 60656,71846	1 89236,83887	9,92889,32071,9159	10,20589,88919	6: 0
	9,22428,18456	62,48374	53,04404	4,71897,0507	16,89417	
9	84887,94448,10685	1 60594,23472	1 89183,79483	9,92884,60174,8652	10,20572,99502	5:24
	9,22686,76803	62,44872	53,00855	4,72080,6398	16,89127	
8	84878,71761,33882	1 60531,78600	1 89130,78628	9,92879,88094,2254	10,20556,10375	4:48
	9,22945,32339	62,41373	52,97310	4,72264,2688	16,88838	
7	84869,48816,01543	1 60469,37227	1 89077,81318	9,92875,15829,9566	10,20539,21537	4:12
	9,23203,85064	62,37878	52,93768	4,72447,9379	16,88548	
6	84860,25612,16479	1 60406,99349	1 89024,87550	9,92870,43382,0187	10,20522,32989	3:36
	9,23462,34975	62,34387	52,90228	4,72631,6468	16,88259	
5	84851,02149,81504	1 60344,64962	1 88971,97322	9,92865,70750,3719	10,20505,44730	3: 0
	9,23720,82075	62,30898	52,86693	4,72815,3958	16,87971	
4	84841,78428,99429	1 60282,34064	1 88919,10629	9,92860,97934,9761	10,20488,56759	2:24
	9,23979,26360	62,27413	52,83161	4,72999,1848	16,87682	
3	84832,54449,73069	1 60220,06651	1 88866,27468	9,92856,24935,7913	10,20471,69077	1:48
	9,24237,67831	62,23931	52,79631	4,73183,0138	16,87394	
2	84823,30212,05238	1 60157,82720	1 88813,47837	9,92851,51752,7775	10,20454,81683	1:12
	9,24496,06487	62,20452	52,76106	4,73366,8829	16,87107	
1	84814,05715,98751	1 60095,62268	1 88760,71731	9,92846,78385,8946	10,20437,94576	0:36
	9,24754,42325	62,16978	52,72583	4,73550,7920	16,86819	
0	84804,80961,56426	1 60033,45290	1 88707,99148	9,92842,04835,1026	10,20421,07757	0: 0
	9,25012,75348	62,13505	52,69064	4,73734,7413	16,86531	

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32. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
0	52991,92642,33205	62486,93519	1 17917,84034	9,72420,97077,7269	9,79578,92243	0: 0
	14,80042,43049	24,27078	12,86335	12,12797,0401	16,86531	
1	53006,72684,76254	62511,20597	1 17930,70369	9,72433,09874,7670	9,79595,78774	0:36
	14,79880,96276	24,27608	12,86975	12,12326,1961	16,86245	
2	53021,52565,72530	62535,48205	1 17943,57344	9,72445,22200,9631	9,79612,65019	1:12
	14,79719,44996	24,28138	12,87615	12,11855,6148	16,85959	
3	53036,32285,17526	62559,76343	1 17956,44959	9,72457,34056,5779	9,79629,50978	1:48
	14,79557,89208	24,28668	12,88256	12,11385,2961	16,85672	
4	53051,11843,06734	62584,05011	1 17969,33215	9,72469,45441,8740	9,79646,36650	2:24
	14,79396,28913	24,29199	12,88897	12,10915,2397	16,85386	
5	53065,91239,35647	62608,34210	1 17982,22112	9,72481,56357,1137	9,79663,22036	3: 0
	14,79234,64113	24,29730	12,89538	12,10445,4453	16,85101	
6	53080,70473,99760	62632,63940	1 17995,11650	9,72493,66802,5590	9,79680,07137	3:36
	14,79072,94805	24,30261	12,90179	12,09975,9128	16,84815	
7	53095,49546,94565	62656,94201	1 18008,01829	9,72505,76778,4718	9,79696,91952	4:12
	14,78911,20992	24,30792	12,90822	12,09506,6418	16,84530	
8	53110,28458,15557	62681,24993	1 18020,92651	9,72517,86285,1136	9,79713,76482	4:48
	14,78749,42674	24,31325	12,91463	12,09037,6322	16,84245	
9	53125,07207,58231	62705,56318	1 18033,84114	9,72529,95322,7458	9,79730,60727	5:24
	14,78587,59852	24,31856	12,92105	12,08568,8834	16,83961	
10	53139,85795,18083	62729,88174	1 18046,76219	9,72542,03891,6292	9,79747,44688	6: 0
	14,78425,72525	24,32390	12,92748	12,08100,3957	16,83677	
11	53154,64220,90608	62754,20564	1 18059,68967	9,72554,11992,0249	9,79764,28365	6:36
	14,78263,80696	24,32922	12,93391	12,07632,1685	16,83393	
12	53169,42484,71304	62778,53486	1 18072,62358	9,72566,19624,1934	9,79781,11758	7:12
	14,78101,84363	24,33455	12,94034	12,07164,2016	16,83110	
13	53184,20586,55667	62802,86941	1 18085,56392	9,72578,26788,3950	9,79797,94868	7:48
	14,77939,83527	24,33989	12,94678	12,06696,4947	16,82826	
14	53198,98526,39194	62827,20930	1 18098,51070	9,72590,33484,8897	9,79814,77694	8:24
	14,77777,78190	24,34523	12,95321	12,06229,0477	16,82543	
15	53213,76304,17384	62851,55453	1 18111,46391	9,72602,39713,9374	9,79831,60237	9: 0
	14,77615,68350	24,35057	12,95965	12,05761,8604	16,82261	
16	53228,53919,85734	62875,90510	1 18124,42356	9,72614,45475,7978	9,79848,42498	9:36
	14,77453,54010	24,35591	12,96610	12,05294,9323	16,81978	
17	53243,31373,39744	62900,26101	1 18137,38966	9,72626,50770,7301	9,79865,24476	10:12
	14,77291,35170	24,36127	12,97254	12,04828,2633	16,81696	
18	53258,08664,74914	62924,62228	1 18150,36220	9,72638,55598,9934	9,79882,06172	10:48
	14,77129,11828	24,36661	12,97899	12,04361,8532	16,81415	
19	53272,85793,86742	62948,98889	1 18163,34119	9,72650,59960,8466	9,79898,87587	11:24
	14,76966,83988	24,37197	12,98545	12,03895,7018	16,81133	
20	53287,62760,70730	62973,36086	1 18176,32664	9,72662,63856,5484	9,79915,68720	12: 0
	14,76804,51648	24,37733	12,99190	12,03429,8086	16,80852	
21	53302,39565,22378	62997,73819	1 18189,31854	9,72674,67286,3570	9,79932,49572	12:36
	14,76642,14811	24,38268	12,99836	12,02964,1736	16,80571	
22	53317,16207,37189	63022,12087	1 18202,31690	9,72686,70250,5306	9,79949,30143	13:12
	14,76479,73474	24,38806	13,00481	12,02498,7966	16,80291	
23	53331,92687,10663	63046,50893	1 18215,32171	9,72698,72749,3272	9,79966,10434	13:48
	14,76317,27640	24,39342	13,01129	12,02033,6770	16,80010	
24	53346,69004,38303	63070,90235	1 18228,33300	9,72710,74783,0042	9,79982,90444	14:24
	14,76154,77309	24,39879	13,01774	12,01568,8150	16,79731	
25	53361,45159,15612	63095,30114	1 18241,35074	9,72722,76351,8192	9,79999,70175	15: 0
	14,75992,22481	24,40416	13,02422	12,01104,2101	16,79451	
26	53376,21151,38093	63119,70530	1 18254,37496	9,72734,77456,0293	9,80016,49626	15:36
	14,75829,63157	24,40955	13,03069	12,00639,8621	16,79171	
27	53390,96981,01250	63144,11485	1 18267,40565	9,72746,78095,8914	9,80033,28797	16:12
	14,75666,99338	24,41492	13,03717	12,00175,7708	16,78892	
28	53405,72648,00588	63168,52977	1 18280,44282	9,72758,78271,6622	9,80050,07689	16:48
	14,75504,31024	24,42031	13,04364	11,99711,9359	16,78614	
29	53420,48152,31612	63192,95008	1 18293,48646	9,72770,77983,5981	9,80066,86303	17:24
	14,75341,58214	24,42569	13,05013	11,99248,3572	16,78335	
30	53435,23493,89826	63217,37577	1 18306,53659	9,72782,77231,9553	9,80083,64638	18: 0
	14,75178,80911	24,43109	13,05661	11,98785,0344	16,78057	
31	53449,98672,70737	63241,80686	1 18319,59320	9,72794,76016,9897	9,80100,42695	18:36
	14,75015,99114	24,43648	13,06310	11,98321,9674	16,77779	
32	53464,73688,69851	63266,24334	1 18332,65630	9,72806,74338,9571	9,80117,20474	19:12
	14,74853,12824	24,44188	13,06959	11,97859,1559	16,77502	
33	53479,48541,82675	63290,68522	1 18345,72589	9,72818,72198,1130	9,80133,97976	19:48
	14,74690,22041	24,44728	13,07608	11,97396,5995	16,77224	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
100	84804,80961,56426	1 60033,45290	1 88707,99148	9,92842,04835,1026	10,20421,07757	60: 0
	9,25012,75348	62,13505	52,69064	4,73734,7413	16,86531	
99	84795,55948,81078	1 59971,31785	1 88655,30084	9,92837,31100,3613	10,20404,21226	59:24
	9,25271,05552	62,10036	52,65548	4,73918,7307	16,86245	
98	84786,30677,75526	1 59909,21749	1 88602,64536	9,92832,57181,6306	10,20387,34981	58:48
	9,25529,32938	62,06572	52,62035	4,74102,7603	16,85959	
97	84777,05148,42588	1 59847,15177	1 88550,02501	9,92827,83078,8703	10,20370,49022	58:12
	9,25787,57505	62,03109	52,58526	4,74286,8301	16,85672	
96	84767,79360,85083	1 59785,12068	1 88497,43975	9,92823,08792,0402	10,20353,63350	57:36
	9,26045,79251	61,99650	52,55020	4,74470,9400	16,85386	
95	84758,53315,05832	1 59723,12418	1 88444,88955	9,92818,34321,1002	10,20336,77964	57: 0
	9,26303,98177	61,96194	52,51516	4,74655,0902	16,85101	
94	84749,27011,07655	1 59661,16224	1 88392,37439	9,92813,59666,0100	10,20319,92863	56:24
	9,26562,14281	61,92743	52,48018	4,74839,2807	16,84815	
93	84740,00448,93374	1 59599,23481	1 88339,89421	9,92808,84826,7293	10,20303,08048	55:48
	9,26820,27562	61,89293	52,44520	4,75023,5114	16,84530	
92	84730,73628,65812	1 59537,34188	1 88287,44901	9,92804,09803,2179	10,20286,23518	55:12
	9,27078,38020	61,85847	52,41027	4,75207,7825	16,84245	
91	84721,46550,27792	1 59475,48341	1 88235,03874	9,92799,34595,4354	10,20269,39273	54:36
	9,27336,45655	61,82405	52,37538	4,75392,0938	16,83961	
90	84712,19213,82137	1 59413,65936	1 88182,66336	9,92794,59203,3416	10,20252,55312	54: 0
	9,27594,50464	61,78966	52,34051	4,75576,4455	16,83677	
89	84702,91619,31673	1 59351,86970	1 88130,32285	9,92789,83626,8961	10,20235,71635	53:24
	9,27852,52447	61,75529	52,30567	4,75760,8377	16,83393	
88	84693,63766,79226	1 59290,11441	1 88078,01718	9,92785,07866,0584	10,20218,88242	52:48
	9,28110,51605	61,72097	52,27087	4,75945,2701	16,83110	
87	84684,35656,27621	1 59228,39344	1 88025,74631	9,92780,31920,7883	10,20202,05132	52:12
	9,28368,47935	61,68667	52,23609	4,76129,7431	16,82826	
86	84675,07287,79686	1 59166,70677	1 87973,51022	9,92775,55791,0452	10,20185,22306	51:36
	9,28626,41438	61,65241	52,20136	4,76314,2565	16,82543	
85	84665,78661,38248	1 59105,05436	1 87921,30886	9,92770,79476,7887	10,20168,39763	51: 0
	9,28884,32110	61,61818	52,16666	4,76498,8104	16,82261	
84	84656,49777,06138	1 59043,43618	1 87869,14220	9,92766,02977,9783	10,20151,57502	50:24
	9,29142,19955	61,58398	52,13197	4,76683,4047	16,81978	
83	84647,20634,86183	1 58981,85220	1 87817,01023	9,92761,26294,5736	10,20134,75524	49:48
	9,29400,04968	61,54981	52,09734	4,76868,0397	16,81696	
82	84637,91234,81215	1 58920,30239	1 87764,91289	9,92756,49426,5339	10,20117,93828	49:12
	9,29657,87150	61,51568	52,06273	4,77052,7151	16,81415	
81	84628,61576,94065	1 58858,78671	1 87712,85016	9,92751,72373,8188	10,20101,12413	48:36
	9,29915,66501	61,48157	52,02814	4,77237,4311	16,81133	
80	84619,31661,27564	1 58797,30514	1 87660,82202	9,92746,95136,3877	10,20084,31280	48: 0
	9,30173,43019	61,44751	51,99361	4,77422,1877	16,80852	
79	84610,01487,84545	1 58735,85763	1 87608,82841	9,92742,17714,2000	10,20067,50428	47:24
	9,30431,16703	61,41346	51,95908	4,77606,9850	16,80571	
78	84600,71056,67842	1 58674,44417	1 87556,86933	9,92737,40107,2150	10,20050,69857	46:48
	9,30688,87553	61,37946	51,92461	4,77791,8229	16,80291	
77	84591,40367,80289	1 58613,06471	1 87504,94472	9,92732,62315,3921	10,20033,89566	46:12
	9,30946,55568	61,34549	51,89015	4,77976,7015	16,80010	
76	84582,09421,24721	1 58551,71922	1 87453,05457	9,92727,84338,6906	10,20017,09556	45:36
	9,31204,20748	61,31154	51,85573	4,78161,6207	16,79731	
75	84572,78217,03973	1 58490,40768	1 87401,19884	9,92723,06177,0699	10,20000,29825	45: 0
	9,31461,83090	61,27764	51,82135	4,78346,5808	16,79451	
74	84563,46755,20883	1 58429,13004	1 87349,37749	9,92718,27830,4891	10,19983,50374	44:24
	9,31719,42595	61,24375	51,78699	4,78531,5814	16,79171	
73	84554,15035,78288	1 58367,88629	1 87297,59050	9,92713,49298,9077	10,19966,71203	43:48
	9,31976,99263	61,20991	51,75266	4,78716,6231	16,78892	
72	84544,83058,79025	1 58306,67638	1 87245,83784	9,92708,70582,2846	10,19949,92311	43:12
	9,32234,53090	61,17609	51,71838	4,78901,7053	16,78614	
71	84535,50824,25935	1 58245,50029	1 87194,11946	9,92703,91680,5793	10,19933,13697	42:36
	9,32492,04079	61,14231	51,68411	4,79086,8285	16,78335	
70	84526,18332,21856	1 58184,35798	1 87142,43535	9,92699,12593,7508	10,19916,35362	42: 0
	9,32749,52226	61,10856	51,64988	4,79271,9924	16,78057	
69	84516,85582,69630	1 58123,24942	1 87090,78547	9,92694,33321,7584	10,19899,57305	41:24
	9,33006,97534	61,07484	51,61569	4,79457,1974	16,77779	
68	84507,52575,72096	1 58062,17458	1 87039,16978	9,92689,53864,5610	10,19882,79526	40:48
	9,33264,39997	61,04115	51,58152	4,79642,4431	16,77502	
67	84498,19311,32099	1 58001,13343	1 86987,58826	9,92684,74222,1179	10,19866,02024	40:12
	9,33521,79619	61,00749	51,54738	4,79827,7297	16,77224	

GRAD. 57.

32. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	53479,48541,82675	63290,68522	1 18345,72589	9,72818,72198,1130	9,80133,97976	19:48
	14,74690,22041	24,44728	13,07608	11,97396,5995	16,77224	
34	53494,23232,04716	63315,13250	1 18358,80197	9,72830,69594,7125	9,80150,75200	20:24
	14,74527,26766	24,45268	13,08257	11,96934,2982	16,76948	
35	53508,97759,31482	63339,58518	1 18371,88454	9,72842,66529,0107	9,80167,52148	21: 0
	14,74364,27000	24,45809	13,08908	11,96472,2516	16,76670	
36	53523,72123,58482	63364,04327	1 18384,97362	9,72854,63001,2623	9,80184,28818	21:36
	14,74201,22741	24,46349	13,09558	11,96010,4596	16,76395	
37	53538,46324,81223	63388,50676	1 18398,06920	9,72866,59011,7219	9,80201,05213	22:12
	14,74038,13993	24,46892	13,10208	11,95548,9218	16,76118	
38	53553,20362,95216	63412,97568	1 18411,17128	9,72878,54560,6437	9,80217,81331	22:48
	14,73875,00755	24,47433	13,10859	11,95087,6380	16,75842	
39	53567,94237,95971	63437,45001	1 18424,27987	9,72890,49648,2817	9,80234,57173	23:24
	14,73711,83026	24,47974	13,11510	11,94626,6081	16,75567	
40	53582,67949,78997	63461,92975	1 18437,39497	9,72902,44274,8898	9,80251,32740	24: 0
	14,73548,60808	24,48518	13,12162	11,94165,8317	16,75292	
41	53597,41498,39805	63486,41493	1 18450,51659	9,72914,38440,7215	9,80268,08032	24:36
	14,73385,34102	24,49060	13,12813	11,93705,3086	16,75017	
42	53612,14883,73907	63510,90553	1 18463,64472	9,72926,32146,0301	9,80284,83049	25:12
	14,73222,02908	24,49603	13,13465	11,93245,0387	16,74742	
43	53626,88105,76815	63535,40156	1 18476,77937	9,72938,25391,0688	9,80301,57791	25:48
	14,73058,67226	24,50146	13,14118	11,92785,0215	16,74468	
44	53641,61164,44041	63559,90302	1 18489,92055	9,72950,18176,0903	9,80318,32259	26:24
	14,72895,27057	24,50690	13,14770	11,92325,2571	16,74194	
45	53656,34059,71098	63584,40992	1 18503,06825	9,72962,10501,3474	9,80335,06453	27: 0
	14,72731,82400	24,51234	13,15423	11,91865,7449	16,73920	
46	53671,06791,53498	63608,92226	1 18516,22248	9,72974,02367,0923	9,80351,80373	27:36
	14,72568,33258	24,51778	13,16076	11,91406,4850	16,73646	
47	53685,79359,86756	63633,44004	1 18529,38324	9,72985,93773,5773	9,80368,54019	28:12
	14,72404,79631	24,52323	13,16730	11,90947,4770	16,73374	
48	53700,51764,66387	63657,96327	1 18542,55054	9,72997,84721,0543	9,80385,27393	28:48
	14,72241,21517	24,52868	13,17383	11,90488,7205	16,73101	
49	53715,24005,87904	63682,49195	1 18555,72437	9,73009,75209,7748	9,80402,00494	29:24
	14,72077,58920	24,53413	13,18037	11,90030,2156	16,72828	
50	53729,96083,46824	63707,02608	1 18568,90474	9,73021,65239,9904	9,80418,73322	30: 0
	14,71913,91837	24,53959	13,18692	11,89571,9619	16,72556	
51	53744,67997,38661	63731,56567	1 18582,09166	9,73033,54811,9523	9,80435,45878	30:36
	14,71750,20272	24,54505	13,19347	11,89113,9590	16,72283	
52	53759,39747,58933	63756,11072	1 18595,28513	9,73045,43925,9113	9,80452,18161	31:12
	14,71586,44223	24,55051	13,20001	11,88656,2071	16,72013	
53	53774,11334,03156	63780,66123	1 18608,48514	9,73057,32582,1184	9,80468,90174	31:48
	14,71422,63692	24,55598	13,20656	11,88198,7055	16,71740	
54	53788,82756,66848	63805,21721	1 18621,69170	9,73069,20780,8239	9,80485,61914	32:24
	14,71258,78677	24,56145	13,21313	11,87741,4543	16,71470	
55	53803,54015,45525	63829,77866	1 18634,90483	9,73081,08522,2782	9,80502,33384	33: 0
	14,71094,89182	24,56692	13,21968	11,87284,4531	16,71199	
56	53818,25110,34707	63854,34558	1 18648,12451	9,73092,95806,7313	9,80519,04583	33:36
	14,70930,95205	24,57239	13,22624	11,86827,7016	16,70928	
57	53832,96041,29912	63878,91797	1 18661,35075	9,73104,82634,4329	9,80535,75511	34:12
	14,70766,96748	24,57788	13,23281	11,86371,1998	16,70659	
58	53847,66808,26660	63903,49585	1 18674,58356	9,73116,69005,6327	9,80552,46170	34:48
	14,70602,93810	24,58336	13,23937	11,85914,9473	16,70388	
59	53862,37411,20470	63928,07921	1 18687,82293	9,73128,54920,5800	9,80569,16558	35:24
	14,70438,86393	24,58885	13,24594	11,85458,9439	16,70118	
60	53877,07850,06863	63952,66806	1 18701,06887	9,73140,40379,5239	9,80585,86676	36: 0
	14,70274,74496	24,59433	13,25252	11,85003,1893	16,69850	
61	53891,78124,81359	63977,26239	1 18714,32139	9,73152,25382,7132	9,80602,56526	36:36
	14,70110,58121	24,59983	13,25910	11,84547,6835	16,69580	
62	53906,48235,39480	64001,86222	1 18727,58049	9,73164,09930,3967	9,80619,26106	37:12
	14,69946,37267	24,60533	13,26567	11,84092,4260	16,69311	
63	53921,18181,76747	64026,46755	1 18740,84616	9,73175,94022,8227	9,80635,95417	37:48
	14,69782,11936	24,61083	13,27226	11,83637,4167	16,69043	
64	53935,87963,88683	64051,07838	1 18754,11842	9,73187,77660,2394	9,80652,64460	38:24
	14,69617,82128	24,61632	13,27884	11,83182,6554	16,68775	
65	53950,57581,70811	64075,69470	1 18767,39726	9,73199,60842,8948	9,80669,33235	39: 0
	14,69453,47842	24,62184	13,28543	11,82728,1418	16,68507	
66	53965,27035,18653	64100,31654	1 18780,68269	9,73211,43571,0366	9,80686,01742	39:36
	14,69289,09082	24,62735	13,29202	11,82273,8757	16,68239	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	84498,19311,32099	1 58001,13343	1 86987,58826	9,92684,74222,1179	10,19866,02024	40:12
	9,33521,79619	61,00749	51,54738	4,79827,7297	16,77224	
66	84488,85789,52480	1 57940,12594	1 86936,04088	9,92679,94394,3882	10,19849,24800	39:36
	9,33779,16397	60,97387	51,51328	4,80013,0574	16,76948	
65	84479,52010,36083	1 57879,15207	1 86884,52760	9,92675,14381,3308	10,19832,47852	39: 0
	9,34036,50330	60,94028	51,47920	4,80198,4261	16,76670	
64	84470,17973,85753	1 57818,21179	1 86833,04840	9,92670,34182,9047	10,19815,71182	38:24
	9,34293,81418	60,90671	51,44517	4,80383,8356	16,76395	
63	84460,83680,04335	1 57757,30508	1 86781,60323	9,92665,53799,0691	10,19798,94787	37:48
	9,34551,09661	60,87318	51,41115	4,80569,2862	16,76118	
62	84451,49128,94674	1 57696,43190	1 86730,19208	9,92660,73229,7829	10,19782,18669	37:12
	9,34808,35055	60,83969	51,37718	4,80754,7779	16,75842	
61	84442,14320,59619	1 57635,59221	1 86678,81490	9,92655,92475,0050	10,19765,42827	36:36
	9,35065,57604	60,80621	51,34323	4,80940,3106	16,75567	
60	84432,79255,02015	1 57574,78600	1 86627,47167	9,92651,11534,6944	10,19748,67260	36: 0
	9,35322,77303	60,77278	51,30931	4,81125,8845	16,75292	
59	84423,43932,24712	1 57514,01322	1 86576,16236	9,92646,30408,8099	10,19731,91968	35:24
	9,35579,94153	60,73938	51,27543	4,81311,4994	16,75017	
58	84414,08352,30559	1 57453,27384	1 86524,88693	9,92641,49097,3105	10,19715,16951	34:48
	9,35837,08153	60,70599	51,24157	4,81497,1555	16,74742	
57	84404,72515,22406	1 57392,56785	1 86473,64536	9,92636,67600,1550	10,19698,42209	34:12
	9,36094,19303	60,67266	51,20775	4,81682,8528	16,74468	
56	84395,36421,03103	1 57331,89519	1 86422,43761	9,92631,85917,3022	10,19681,67741	33:36
	9,36351,27601	60,63934	51,17396	4,81868,5913	16,74194	
55	84386,00069,75502	1 57271,25585	1 86371,26365	9,92627,04048,7109	10,19664,93547	33: 0
	9,36608,33046	60,60607	51,14019	4,82054,3710	16,73920	
54	84376,63461,42456	1 57210,64978	1 86320,12346	9,92622,21994,3399	10,19648,19627	32:24
	9,36865,35639	60,57281	51,10647	4,82240,1919	16,73646	
53	84367,26596,06817	1 57150,07697	1 86269,01699	9,92617,39754,1480	10,19631,45981	31:48
	9,37122,35378	60,53960	51,07276	4,82426,0541	16,73374	
52	84357,89473,71439	1 57089,53737	1 86217,94423	9,92612,57328,0939	10,19614,72607	31:12
	9,37379,32262	60,50641	51,03910	4,82611,9577	16,73101	
51	84348,52094,39177	1 57029,03096	1 86166,90513	9,92607,74716,1362	10,19597,99506	30:36
	9,37636,26291	60,47325	51,00546	4,82797,9024	16,72828	
50	84339,14458,12886	1 56968,55771	1 86115,89967	9,92602,91918,2338	10,19581,26678	30: 0
	9,37893,17464	60,44012	50,97185	4,82983,8887	16,72556	
49	84329,76564,95422	1 56908,11759	1 86064,92782	9,92598,08934,3451	10,19564,54122	29:24
	9,38150,05779	60,40704	50,93828	4,83169,9161	16,72283	
48	84320,38414,89643	1 56847,71055	1 86013,98954	9,92593,25764,4290	10,19547,81839	28:48
	9,38406,91237	60,37396	50,90472	4,83355,9852	16,72013	
47	84311,00007,98406	1 56787,33659	1 85963,08482	9,92588,42408,4438	10,19531,09826	28:12
	9,38663,73836	60,34094	50,87122	4,83542,0955	16,71740	
46	84301,61344,24570	1 56726,99565	1 85912,21360	9,92583,58866,3483	10,19514,38086	27:36
	9,38920,53576	60,30793	50,83773	4,83728,2473	16,71470	
45	84292,22423,70994	1 56666,68772	1 85861,37587	9,92578,75138,1010	10,19497,66616	27: 0
	9,39177,30455	60,27496	50,80427	4,83914,4406	16,71199	
44	84282,83246,40539	1 56606,41276	1 85810,57160	9,92573,91223,6604	10,19480,95417	26:24
	9,39434,04475	60,24202	50,77085	4,84100,6754	16,70928	
43	84273,43812,36064	1 56546,17074	1 85759,80075	9,92569,07122,9850	10,19464,24489	25:48
	9,39690,75632	60,20911	50,73746	4,84286,9517	16,70659	
42	84264,04121,60432	1 56485,96163	1 85709,06329	9,92564,22836,0333	10,19447,53830	25:12
	9,39947,43926	60,17623	50,70409	4,84473,2696	16,70388	
41	84254,64174,16506	1 56425,78540	1 85658,35920	9,92559,38362,7637	10,19430,83442	24:36
	9,40204,09358	60,14338	50,67077	4,84659,6290	16,70118	
40	84245,23970,07148	1 56365,64202	1 85607,68843	9,92554,53703,1347	10,19414,13324	24: 0
	9,40460,71926	60,11056	50,63746	4,84846,0300	16,69850	
39	84235,83509,35222	1 56305,53146	1 85557,05097	9,92549,68857,1047	10,19397,43474	23:24
	9,40717,31628	60,07777	50,60419	4,85032,4727	16,69580	
38	84226,42792,03594	1 56245,45369	1 85506,44678	9,92544,83824,6320	10,19380,73894	22:48
	9,40973,88466	60,04502	50,57095	4,85218,9570	16,69311	
37	84217,01818,15128	1 56185,40867	1 85455,87583	9,92539,98605,6750	10,19364,04583	22:12
	9,41230,42436	60,01229	50,53773	4,85405,4829	16,69043	
36	84207,60587,72692	1 56125,39638	1 85405,33810	9,92535,13200,1921	10,19347,35540	21:36
	9,41486,93539	59,97959	50,50456	4,85592,0507	16,68775	
35	84198,19100,79153	1 56065,41679	1 85354,83354	9,92530,27608,1414	10,19330,66765	21: 0
	9,41743,41776	59,94693	50,47140	4,85778,6600	16,68507	
34	84188,77357,37377	1 56005,46986	1 85304,36214	9,92525,41829,4814	10,19313,98258	20:24
	9,41999,87142	59,91429	50,43829	4,85965,3113	16,68239	

GRAD. 57.

32. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	53979,96324,27735	64124,94389	1 18793,97471	9,73223,25844,9123	9,80702,69981	40:12
	14,69124,65844	24,63285	13,29862	11,81819,8568	16,67972	
68	53994,65448,93579	64149,57674	1 18807,27333	9,73235,07664,7691	9,80719,37953	40:48
	14,68960,18131	24,63838	13,30522	11,81366,0849	16,67704	
69	54009,34409,11710	64174,21512	1 18820,57855	9,73246,89030,8540	9,80736,05657	41:24
	14,68795,65945	24,64389	13,31181	11,80912,5599	16,67439	
70	54024,03204,77655	64198,85901	1 18833,89036	9,73258,69943,4139	9,80752,73096	42: 0
	14,68631,09284	24,64942	13,31842	11,80459,2815	16,67171	
71	54038,71835,86939	64223,50843	1 18847,20878	9,73270,50402,6954	9,80769,40267	42:36
	14,68466,48148	24,65494	13,32503	11,80006,2494	16,66906	
72	54053,40302,35087	64248,16337	1 18860,53381	9,73282,30408,9448	9,80786,07173	43:12
	14,68301,82541	24,66048	13,33163	11,79553,4634	16,66639	
73	54068,08604,17628	64272,82385	1 18873,86544	9,73294,09962,4082	9,80802,73812	43:48
	14,68137,12459	24,66601	13,33825	11,79100,9232	16,66374	
74	54082,76741,30087	64297,48986	1 18887,20369	9,73305,89063,3314	9,80819,40186	44:24
	14,67972,37907	24,67154	13,34487	11,78648,6289	16,66109	
75	54097,44713,67994	64322,16140	1 18900,54856	9,73317,67711,9603	9,80836,06295	45: 0
	14,67807,58882	24,67709	13,35148	11,78196,5798	16,65843	
76	54112,12521,26876	64346,83849	1 18913,90004	9,73329,45908,5401	9,80852,72138	45:36
	14,67642,75386	24,68262	13,35811	11,77744,7760	16,65579	
77	54126,80164,02262	64371,52111	1 18927,25815	9,73341,23653,3161	9,80869,37717	46:12
	14,67477,87419	24,68818	13,36473	11,77293,2172	16,65315	
78	54141,47641,89681	64396,20929	1 18940,62288	9,73353,00946,5333	9,80886,03032	46:48
	14,67312,94983	24,69372	13,37136	11,76841,9031	16,65050	
79	54156,14954,84664	64420,90301	1 18953,99424	9,73364,77788,4364	9,80902,68082	47:24
	14,67147,98076	24,69928	13,37799	11,76390,8336	16,64786	
80	54170,82102,82740	64445,60229	1 18967,37223	9,73376,54179,2700	9,80919,32868	48: 0
	14,66982,96700	24,70484	13,38462	11,75940,0083	16,64523	
81	54185,49085,79440	64470,30713	1 18980,75685	9,73388,30119,2783	9,80935,97391	48:36
	14,66817,90856	24,71039	13,39126	11,75489,4272	16,64260	
82	54200,15903,70296	64495,01752	1 18994,14811	9,73400,05608,7055	9,80952,61651	49:12
	14,66652,80544	24,71596	13,39790	11,75039,0898	16,63996	
83	54214,82556,50840	64519,73348	1 19007,54601	9,73411,80647,7953	9,80969,25647	49:48
	14,66487,65763	24,72153	13,40455	11,74588,9961	16,63734	
84	54229,49044,16603	64544,45501	1 19020,95056	9,73423,55236,7914	9,80985,89381	50:24
	14,66322,46516	24,72709	13,41119	11,74139,1458	16,63471	
85	54244,15366,63119	64569,18210	1 19034,36175	9,73435,29375,9372	9,81002,52852	51: 0
	14,66157,22801	24,73267	13,41784	11,73689,5387	16,63210	
86	54258,81523,85920	64593,91477	1 19047,77959	9,73447,03065,4759	9,81019,16062	51:36
	14,65991,94622	24,73825	13,42450	11,73240,1746	16,62947	
87	54273,47515,80542	64618,65302	1 19061,20409	9,73458,76305,6505	9,81035,79009	52:12
	14,65826,61975	24,74383	13,43115	11,72791,0530	16,62686	
88	54288,13342,42517	64643,39685	1 19074,63524	9,73470,49096,7035	9,81052,41695	52:48
	14,65661,24865	24,74941	13,43780	11,72342,1741	16,62424	
89	54302,79003,67382	64668,14626	1 19088,07304	9,73482,21438,8776	9,81069,04119	53:24
	14,65495,83289	24,75500	13,44447	11,71893,5375	16,62164	
90	54317,44499,50671	64692,90126	1 19101,51751	9,73493,93332,4151	9,81085,66283	54: 0
	14,65330,37248	24,76059	13,45114	11,71445,1428	16,61902	
91	54332,09829,87919	64717,66185	1 19114,96865	9,73505,64777,5579	9,81102,28185	54:36
	14,65164,86746	24,76619	13,45780	11,70996,9900	16,61642	
92	54346,74994,74665	64742,42804	1 19128,42645	9,73517,35774,5479	9,81118,89827	55:12
	14,64999,31778	24,77178	13,46447	11,70549,0788	16,61382	
93	54361,39994,06443	64767,19982	1 19141,89092	9,73529,06323,6267	9,81135,51209	55:48
	14,64833,72349	24,77739	13,47115	11,70101,4090	16,61123	
94	54376,04827,78792	64791,97721	1 19155,36207	9,73540,76425,0357	9,81152,12332	56:24
	14,64668,08458	24,78298	13,47783	11,69653,9804	16,60862	
95	54390,69495,87250	64816,76019	1 19168,83990	9,73552,46079,0161	9,81168,73194	57: 0
	14,64502,40105	24,78860	13,48450	11,69206,7926	16,60604	
96	54405,33998,27355	64841,54879	1 19182,32440	9,73564,15285,8087	9,81185,33798	57:36
	14,64336,67290	24,79421	13,49119	11,68759,8457	16,60344	
97	54419,98334,94645	64866,34300	1 19195,81559	9,73575,84045,6544	9,81201,94142	58:12
	14,64170,90016	24,79982	13,49787	11,68313,1393	16,60085	
98	54434,62505,84661	64891,14282	1 19209,31346	9,73587,52358,7937	9,81218,54227	58:48
	14,64005,08280	24,80544	13,50457	11,67866,6730	16,59827	
99	54449,26510,92941	64915,94826	1 19222,81803	9,73599,20225,4667	9,81235,14054	59:24
	14,63839,22086	24,81106	13,51125	11,67420,4468	16,59569	
100	54463,90350,15027	64940,75932	1 19236,32928	9,73610,87645,9135	9,81251,73623	60: 0
	14,63673,31432	24,81669	13,51796	11,66974,4606	16,59311	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	84179,35357,50235	1 55945,55557	1 85253,92385	9,92520,55864,1701	10,19297,30019	19:48
	9,42256,29639	59,88169	50,40519	4,86152,0041	16,67972	
32	84169,93101,20596	1 55885,67388	1 85203,51866	9,92515,69712,1660	10,19280,62047	19:12
	9,42512,69267	59,84911	50,37214	4,86338,7389	16,67704	
31	84160,50588,51329	1 55825,82477	1 85153,14652	9,92510,83373,4271	10,19263,94343	18:36
	9,42769,06023	59,81656	50,33910	4,86525,5154	16,67439	
30	84151,07819,45306	1 55766,00821	1 85102,80742	9,92505,96847,9117	10,19247,26904	18: 0
	9,43025,39907	59,78405	50,30611	4,86712,3339	16,67171	
29	84141,64794,05399	1 55706,22416	1 85052,50131	9,92501,10135,5778	10,19230,59733	17:24
	9,43281,70919	59,75157	50,27313	4,86899,1941	16,66906	
28	84132,21512,34480	1 55646,47259	1 85002,22818	9,92496,23236,3837	10,19213,92827	16:48
	9,43537,99057	59,71911	50,24019	4,87086,0964	16,66639	
27	84122,77974,35423	1 55586,75348	1 84951,98799	9,92491,36150,2873	10,19197,26188	16:12
	9,43794,24320	59,68668	50,20729	4,87273,0404	16,66374	
26	84113,34180,11103	1 55527,06680	1 84901,78070	9,92486,48877,2469	10,19180,59814	15:36
	9,44050,46711	59,65429	50,17440	4,87460,0266	16,66109	
25	84103,90129,64392	1 55467,41251	1 84851,60630	9,92481,61417,2203	10,19163,93705	15: 0
	9,44306,66223	59,62193	50,14155	4,87647,0546	16,65843	
24	84094,45822,98169	1 55407,79058	1 84801,46475	9,92476,73770,1657	10,19147,27862	14:24
	9,44562,82860	59,58959	50,10873	4,87834,1247	16,65579	
23	84085,01260,15309	1 55348,20099	1 84751,35602	9,92471,85936,0410	10,19130,62283	13:48
	9,44818,96620	59,55729	50,07594	4,88021,2367	16,65315	
22	84075,56441,18689	1 55288,64370	1 84701,28008	9,92466,97914,8043	10,19113,96968	13:12
	9,45075,07501	59,52501	50,04318	4,88208,3909	16,65050	
21	84066,11366,11188	1 55229,11869	1 84651,23690	9,92462,09706,4134	10,19097,31918	12:36
	9,45331,15504	59,49277	50,01044	4,88395,5872	16,64786	
20	84056,66034,95684	1 55169,62592	1 84601,22646	9,92457,21310,8262	10,19080,67132	12: 0
	9,45587,20626	59,46055	49,97775	4,88582,8255	16,64523	
19	84047,20447,75058	1 55110,16537	1 84551,24871	9,92452,32728,0007	10,19064,02609	11:24
	9,45843,22870	59,42836	49,94507	4,88770,1060	16,64260	
18	84037,74604,52188	1 55050,73701	1 84501,30364	9,92447,43957,8947	10,19047,38349	10:48
	9,46099,22230	59,39621	49,91242	4,88957,4286	16,63996	
17	84028,28505,29958	1 54991,34080	1 84451,39122	9,92442,55000,4661	10,19030,74353	10:12
	9,46355,18710	59,36409	49,87982	4,89144,7934	16,63734	
16	84018,82150,11248	1 54931,97671	1 84401,51140	9,92437,65855,6727	10,19014,10619	9:36
	9,46611,12306	59,33199	49,84723	4,89332,2005	16,63471	
15	84009,35538,98942	1 54872,64472	1 84351,66417	9,92432,76523,4722	10,18997,47148	9: 0
	9,46867,03019	59,29992	49,81467	4,89519,6497	16,63210	
14	83999,88671,95923	1 54813,34480	1 84301,84950	9,92427,87003,8225	10,18980,83938	8:24
	9,47122,90848	59,26789	49,78215	4,89707,1413	16,62947	
13	83990,41549,05075	1 54754,07691	1 84252,06735	9,92422,97296,6812	10,18964,20991	7:48
	9,47378,75792	59,23587	49,74966	4,89894,6750	16,62686	
12	83980,94170,29283	1 54694,84104	1 84202,31769	9,92418,07402,0062	10,18947,58305	7:12
	9,47634,57849	59,20390	49,71718	4,90082,2513	16,62424	
11	83971,46535,71434	1 54635,63714	1 84152,60051	9,92413,17319,7549	10,18930,95881	6:36
	9,47890,37021	59,17195	49,68475	4,90269,8696	16,62164	
10	83961,98645,34413	1 54576,46519	1 84102,91576	9,92408,27049,8853	10,18914,33717	6: 0
	9,48146,13304	59,14003	49,65235	4,90457,5305	16,61902	
9	83952,50499,21109	1 54517,32516	1 84053,26341	9,92403,36592,3548	10,18897,71815	5:24
	9,48401,86699	59,10815	49,61996	4,90645,2338	16,61642	
8	83943,02097,34410	1 54458,21701	1 84003,64345	9,92398,45947,1210	10,18881,10173	4:48
	9,48657,57206	59,07628	49,58761	4,90832,9793	16,61382	
7	83933,53439,77204	1 54399,14073	1 83954,05584	9,92393,55114,1417	10,18864,48791	4:12
	9,48913,24822	59,04445	49,55530	4,91020,7675	16,61123	
6	83924,04526,52382	1 54340,09628	1 83904,50054	9,92388,64093,3742	10,18847,87668	3:36
	9,49168,89549	59,01265	49,52300	4,91208,5980	16,60862	
5	83914,55357,62833	1 54281,08363	1 83854,97754	9,92383,72884,7762	10,18831,26806	3: 0
	9,49424,51383	58,98088	49,49074	4,91396,4711	16,60604	
4	83905,05933,11450	1 54222,10275	1 83805,48680	9,92378,81488,3051	10,18814,66202	2:24
	9,49680,10326	58,94913	49,45851	4,91584,3866	16,60344	
3	83895,56253,01124	1 54163,15362	1 83756,02829	9,92373,89903,9185	10,18798,05858	1:48
	9,49935,66375	58,91742	49,42630	4,91772,3447	16,60085	
2	83886,06317,34749	1 54104,23620	1 83706,60199	9,92368,98131,5738	10,18781,45773	1:12
	9,50191,19532	58,88574	49,39413	4,91960,3454	16,59827	
1	83876,56126,15217	1 54045,35046	1 83657,20786	9,92364,06171,2284	10,18764,85946	0:36
	9,50446,69793	58,85408	49,36198	4,92148,3887	16,59569	
0	83867,05679,45424	1 53986,49638	1 83607,84588	9,92359,14022,8397	10,18748,26377	0: 0
	9,50702,17160	58,82245	49,32987	4,92336,4746	16,59311	

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33. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
0	54463,90350,15027	64940,75932	1 19236,32928	9,73610,87645,9135	9,81251,73623	0: 0
	14,63673,31432	24,81669	13,51796	11,66974,4606	16,59311	
1	54478,54023,46459	64965,57601	1 19249,84724	9,73622,54620,3741	9,81268,32934	0:36
	14,63507,36320	24,82231	13,52465	11,66528,7138	16,59053	
2	54493,17530,82779	64990,39832	1 19263,37189	9,73634,21149,0879	9,81284,91987	1:12
	14,63341,36750	24,82795	13,53135	11,66083,2065	16,58796	
3	54507,80872,19529	65015,22627	1 19276,90324	9,73645,87232,2944	9,81301,50783	1:48
	14,63175,32721	24,83358	13,53806	11,65637,9384	16,58539	
4	54522,44047,52250	65040,05985	1 19290,44130	9,73657,52870,2328	9,81318,09322	2:24
	14,63009,24236	24,83922	13,54477	11,65192,9092	16,58282	
5	54537,07056,76486	65064,89907	1 19303,98607	9,73669,18063,1420	9,81334,67604	3: 0
	14,62843,11295	24,84486	13,55147	11,64748,1188	16,58026	
6	54551,69899,87781	65089,74393	1 19317,53754	9,73680,82811,2608	9,81351,25630	3:36
	14,62676,93897	24,85051	13,55819	11,64303,5668	16,57770	
7	54566,32576,81678	65114,59444	1 19331,09573	9,73692,47114,8276	9,81367,83400	4:12
	14,62510,72044	24,85616	13,56491	11,63859,2532	16,57513	
8	54580,95087,53722	65139,45060	1 19344,66064	9,73704,10974,0808	9,81384,40913	4:48
	14,62344,45735	24,86181	13,57163	11,63415,1776	16,57258	
9	54595,57431,99457	65164,31241	1 19358,23227	9,73715,74389,2584	9,81400,98171	5:24
	14,62178,14972	24,86746	13,57836	11,62971,3400	16,57002	
10	54610,19610,14429	65189,17987	1 19371,81063	9,73727,37360,5984	9,81417,55173	6: 0
	14,62011,79755	24,87313	13,58508	11,62527,7398	16,56748	
11	54624,81621,94184	65214,05300	1 19385,39571	9,73738,99888,3382	9,81434,11921	6:36
	14,61845,40085	24,87879	13,59181	11,62084,3773	16,56492	
12	54639,43467,34269	65238,93179	1 19398,98752	9,73750,61972,7155	9,81450,68413	7:12
	14,61678,95961	24,88445	13,59854	11,61641,2518	16,56239	
13	54654,05146,30230	65263,81624	1 19412,58606	9,73762,23613,9673	9,81467,24652	7:48
	14,61512,47385	24,89012	13,60528	11,61198,3634	16,55983	
14	54668,66658,77615	65288,70636	1 19426,19134	9,73773,84812,3307	9,81483,80635	8:24
	14,61345,94357	24,89580	13,61202	11,60755,7117	16,55730	
15	54683,28004,71972	65313,60216	1 19439,80336	9,73785,45568,0424	9,81500,36365	9: 0
	14,61179,36878	24,90147	13,61876	11,60313,2966	16,55476	
16	54697,89184,08850	65338,50363	1 19453,42212	9,73797,05881,3390	9,81516,91841	9:36
	14,61012,74946	24,90716	13,62551	11,59871,1179	16,55223	
17	54712,50196,83796	65363,41079	1 19467,04763	9,73808,65752,4569	9,81533,47064	10:12
	14,60846,08566	24,91283	13,63226	11,59429,1752	16,54970	
18	54727,11042,92362	65388,32362	1 19480,67989	9,73820,25181,6321	9,81550,02034	10:48
	14,60679,37734	24,91853	13,63901	11,58987,4684	16,54717	
19	54741,71722,30096	65413,24215	1 19494,31890	9,73831,84169,1005	9,81566,56751	11:24
	14,60512,62454	24,92421	13,64576	11,58545,9974	16,54464	
20	54756,32234,92550	65438,16636	1 19507,96466	9,73843,42715,0979	9,81583,11215	12: 0
	14,60345,82724	24,92991	13,65252	11,58104,7618	16,54212	
21	54770,92580,75274	65463,09627	1 19521,61718	9,73855,00819,8597	9,81599,65427	12:36
	14,60178,98547	24,93560	13,65928	11,57663,7616	16,53960	
22	54785,52759,73821	65488,03187	1 19535,27646	9,73866,58483,6213	9,81616,19387	13:12
	14,60012,09920	24,94131	13,66605	11,57222,9962	16,53708	
23	54800,12771,83741	65512,97318	1 19548,94251	9,73878,15706,6175	9,81632,73095	13:48
	14,59845,16847	24,94701	13,67281	11,56782,4658	16,53457	
24	54814,72617,00588	65537,92019	1 19562,61532	9,73889,72489,0833	9,81649,26552	14:24
	14,59678,19326	24,95272	13,67959	11,56342,1700	16,53205	
25	54829,32295,19914	65562,87291	1 19576,29491	9,73901,28831,2533	9,81665,79757	15: 0
	14,59511,17359	24,95843	13,68636	11,55902,1085	16,52955	
26	54843,91806,37273	65587,83134	1 19589,98127	9,73912,84733,3618	9,81682,32712	15:36
	14,59344,10947	24,96414	13,69314	11,55462,2813	16,52704	
27	54858,51150,48220	65612,79548	1 19603,67441	9,73924,40195,6431	9,81698,85416	16:12
	14,59177,00088	24,96987	13,69991	11,55022,6881	16,52454	
28	54873,10327,48308	65637,76535	1 19617,37432	9,73935,95218,3312	9,81715,37870	16:48
	14,59009,84786	24,97558	13,70670	11,54583,3286	16,52203	
29	54887,69337,33094	65662,74093	1 19631,08102	9,73947,49801,6598	9,81731,90073	17:24
	14,58842,65038	24,98131	13,71349	11,54144,2026	16,51954	
30	54902,28179,98132	65687,72224	1 19644,79451	9,73959,03945,8624	9,81748,42027	18: 0
	14,58675,40846	24,98704	13,72028	11,53705,3100	16,51704	
31	54916,86855,38978	65712,70928	1 19658,51479	9,73970,57651,1724	9,81764,93731	18:36
	14,58508,12212	24,99277	13,72707	11,53266,6505	16,51456	
32	54931,45363,51190	65737,70205	1 19672,24186	9,73982,10917,8229	9,81781,45187	19:12
	14,58340,79134	24,99850	13,73386	11,52828,2239	16,51206	
33	54946,03704,30324	65762,70055	1 19685,97572	9,73993,63746,0468	9,81797,96393	19:48
	14,58173,41614	25,00425	13,74067	11,52390,0300	16,50957	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
100	83867,05679,45424	1 53986,49638	1 83607,84588	9,92359,14022,8397	10,18748,26377	60: 0
	9,50702,17160	58,82245	49,32987	4,92336,4746	16,59311	
99	83857,54977,28264	1 53927,67393	1 83558,51601	9,92354,21686,3651	10,18731,67066	59:24
	9,50957,61629	58,79086	49,29777	4,92524,6031	16,59053	
98	83848,04019,66635	1 53868,88307	1 83509,21824	9,92349,29161,7620	10,18715,08013	58:48
	9,51213,03204	58,75929	49,26572	4,92712,7744	16,58796	
97	83838,52806,63431	1 53810,12378	1 83459,95252	9,92344,36448,9876	10,18698,49217	58:12
	9,51468,41880	58,72775	49,23369	4,92900,9883	16,58539	
96	83829,01338,21551	1 53751,39603	1 83410,71883	9,92339,43547,9993	10,18681,90678	57:36
	9,51723,77657	58,69624	49,20168	4,93089,2450	16,58282	
95	83819,49614,43894	1 53692,69979	1 83361,51715	9,92334,50458,7543	10,18665,32396	57: 0
	9,51979,10536	58,66475	49,16972	4,93277,5444	16,58026	
94	83809,97635,33358	1 53634,03504	1 83312,34743	9,92329,57181,2099	10,18648,74370	56:24
	9,52234,40514	58,63331	49,13776	4,93465,8865	16,57770	
93	83800,45400,92844	1 53575,40173	1 83263,20967	9,92324,63715,3234	10,18632,16600	55:48
	9,52489,67593	58,60188	49,10586	4,93654,2716	16,57513	
92	83790,92911,25251	1 53516,79985	1 83214,10381	9,92319,70061,0518	10,18615,59087	55:12
	9,52744,91769	58,57048	49,07396	4,93842,6993	16,57258	
91	83781,40166,33482	1 53458,22937	1 83165,02985	9,92314,76218,3525	10,18599,01829	54:36
	9,53000,13043	58,53912	49,04211	4,94031,1701	16,57002	
90	83771,87166,20439	1 53399,69025	1 83115,98774	9,92309,82187,1824	10,18582,44827	54: 0
	9,53255,31415	58,50779	49,01027	4,94219,6837	16,56748	
89	83762,33910,89024	1 53341,18246	1 83066,97747	9,92304,87967,4987	10,18565,88079	53:24
	9,53510,46882	58,47647	48,97848	4,94408,2401	16,56492	
88	83752,80400,42142	1 53282,70599	1 83017,99899	9,92299,93559,2586	10,18549,31587	52:48
	9,53765,59446	58,44520	48,94670	4,94596,8395	16,56239	
87	83743,26634,82696	1 53224,26079	1 82969,05229	9,92294,98962,4191	10,18532,75348	52:12
	9,54020,69103	58,41394	48,91496	4,94785,4819	16,55983	
86	83733,72614,13593	1 53165,84685	1 82920,13733	9,92290,04176,9372	10,18516,19365	51:36
	9,54275,75854	58,38272	48,88324	4,94974,1673	16,55730	
85	83724,18338,37739	1 53107,46413	1 82871,25409	9,92285,09202,7699	10,18499,63635	51: 0
	9,54530,79699	58,35153	48,85155	4,95162,8956	16,55476	
84	83714,63807,58040	1 53049,11260	1 82822,40254	9,92280,14039,8743	10,18483,08159	50:24
	9,54785,80636	58,32036	48,81990	4,95351,6671	16,55223	
83	83705,09021,77404	1 52990,79224	1 82773,58264	9,92275,18688,2072	10,18466,52936	49:48
	9,55040,78665	58,28922	48,78826	4,95540,4815	16,54970	
82	83695,53980,98739	1 52932,50302	1 82724,79438	9,92270,23147,7257	10,18449,97966	49:12
	9,55295,73784	58,25812	48,75667	4,95729,3392	16,54717	
81	83685,98685,24955	1 52874,24490	1 82676,03771	9,92265,27418,3865	10,18433,43249	48:36
	9,55550,65993	58,22703	48,72508	4,95918,2398	16,54464	
80	83676,43134,58962	1 52816,01787	1 82627,31263	9,92260,31500,1467	10,18416,88785	48: 0
	9,55805,55292	58,19598	48,69354	4,96107,1837	16,54212	
79	83666,87329,03670	1 52757,82189	1 82578,61909	9,92255,35392,9630	10,18400,34573	47:24
	9,56060,41679	58,16496	48,66203	4,96296,1707	16,53960	
78	83657,31268,61991	1 52699,65693	1 82529,95706	9,92250,39096,7923	10,18383,80613	46:48
	9,56315,25154	58,13397	48,63053	4,96485,2009	16,53708	
77	83647,74953,36837	1 52641,52296	1 82481,32653	9,92245,42611,5914	10,18367,26905	46:12
	9,56570,05715	58,10300	48,59907	4,96674,2744	16,53457	
76	83638,18383,31122	1 52583,41996	1 82432,72746	9,92240,45937,3170	10,18350,73448	45:36
	9,56824,83362	58,07206	48,56764	4,96863,3910	16,53205	
75	83628,61558,47760	1 52525,34790	1 82384,15982	9,92235,49073,9260	10,18334,20243	45: 0
	9,57079,58096	58,04115	48,53623	4,97052,5510	16,52955	
74	83619,04478,89664	1 52467,30675	1 82335,62359	9,92230,52021,3750	10,18317,67288	44:24
	9,57334,29914	58,01027	48,50486	4,97241,7543	16,52704	
73	83609,47144,59750	1 52409,29648	1 82287,11873	9,92225,54779,6207	10,18301,14584	43:48
	9,57588,98815	57,97941	48,47351	4,97431,0009	16,52454	
72	83599,89555,60935	1 52351,31707	1 82238,64522	9,92220,57348,6198	10,18284,62130	43:12
	9,57843,64799	57,94859	48,44218	4,97620,2909	16,52203	
71	83590,31711,96136	1 52293,36848	1 82190,20304	9,92215,59728,3289	10,18268,09927	42:36
	9,58098,27866	57,91779	48,41089	4,97809,6242	16,51954	
70	83580,73613,68270	1 52235,45069	1 82141,79215	9,92210,61918,7047	10,18251,57973	42: 0
	9,58352,88014	57,88702	48,37963	4,97999,0010	16,51704	
69	83571,15260,80256	1 52177,56367	1 82093,41252	9,92205,63919,7037	10,18235,06269	41:24
	9,58607,45243	57,85628	48,34839	4,98188,4211	16,51456	
68	83561,56653,35013	1 52119,70739	1 82045,06413	9,92200,65731,2826	10,18218,54813	40:48
	9,58861,99551	57,82557	48,31717	4,98377,8848	16,51206	
67	83551,97791,35462	1 52061,88182	1 81996,74696	9,92195,67353,3978	10,18202,03607	40:12
	9,59116,50940	57,79488	48,28600	4,98567,3920	16,50957	

GRAD. 56.

33. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	54946,03704,30324	65762,70055	1 19685,97572	9,73993,63746,0468	9,81797,96393	19:48
	14,58173,41614	25,00425	13,74067	11,52390,0300	16,50957	
34	54960,61877,71938	65787,70480	1 19699,71639	9,74005,16136,0768	9,81814,47350	20:24
	14,58005,99653	25,00999	13,74746	11,51952,0686	16,50709	
35	54975,19883,71591	65812,71479	1 19713,46385	9,74016,68088,1454	9,81830,98059	21: 0
	14,57838,53249	25,01573	13,75428	11,51514,3395	16,50461	
36	54989,77722,24840	65837,73052	1 19727,21813	9,74028,19602,4849	9,81847,48520	21:36
	14,57671,02405	25,02149	13,76108	11,51076,8425	16,50213	
37	55004,35393,27245	65862,75201	1 19740,97921	9,74039,70679,3274	9,81863,98733	22:12
	14,57503,47121	25,02723	13,76789	11,50639,5772	16,49965	
38	55018,92896,74366	65887,77924	1 19754,74710	9,74051,21318,9046	9,81880,48698	22:48
	14,57335,87396	25,03300	13,77471	11,50202,5436	16,49719	
39	55033,50232,61762	65912,81224	1 19768,52181	9,74062,71521,4482	9,81896,98417	23:24
	14,57168,23234	25,03875	13,78153	11,49765,7415	16,49471	
40	55048,07400,84996	65937,85099	1 19782,30334	9,74074,21287,1897	9,81913,47888	24: 0
	14,57000,54631	25,04452	13,78835	11,49329,1706	16,49224	
41	55062,64401,39627	65962,89551	1 19796,09169	9,74085,70616,3603	9,81929,97112	24:36
	14,56832,81590	25,05028	13,79517	11,48892,8307	16,48978	
42	55077,21234,21217	65987,94579	1 19809,88686	9,74097,19509,1910	9,81946,46090	25:12
	14,56665,04112	25,05606	13,80201	11,48456,7216	16,48731	
43	55091,77899,25329	66013,00185	1 19823,68887	9,74108,67965,9126	9,81962,94821	25:48
	14,56497,22197	25,06183	13,80883	11,48020,8430	16,48486	
44	55106,34396,47526	66038,06368	1 19837,49770	9,74120,15986,7556	9,81979,43307	26:24
	14,56329,35844	25,06761	13,81567	11,47585,1949	16,48240	
45	55120,90725,83370	66063,13129	1 19851,31337	9,74131,63571,9505	9,81995,91547	27: 0
	14,56161,45056	25,07339	13,82250	11,47149,7769	16,47995	
46	55135,46887,28426	66088,20468	1 19865,13587	9,74143,10721,7274	9,82012,39542	27:36
	14,55993,49832	25,07917	13,82935	11,46714,5889	16,47749	
47	55150,02880,78258	66113,28385	1 19878,96522	9,74154,57436,3163	9,82028,87291	28:12
	14,55825,50172	25,08496	13,83619	11,46279,6307	16,47505	
48	55164,58706,28430	66138,36881	1 19892,80141	9,74166,03715,9470	9,82045,34796	28:48
	14,55657,46078	25,09076	13,84304	11,45844,9019	16,47260	
49	55179,14363,74508	66163,45957	1 19906,64445	9,74177,49560,8489	9,82061,82056	29:24
	14,55489,37550	25,09655	13,84988	11,45410,4026	16,47016	
50	55193,69853,12058	66188,55612	1 19920,49433	9,74188,94971,2515	9,82078,29072	30: 0
	14,55321,24588	25,10235	13,85675	11,44976,1323	16,46772	
51	55208,25174,36646	66213,65847	1 19934,35108	9,74200,39947,3838	9,82094,75844	30:36
	14,55153,07193	25,10815	13,86359	11,44542,0911	16,46528	
52	55222,80327,43839	66238,76662	1 19948,21467	9,74211,84489,4749	9,82111,22372	31:12
	14,54984,85365	25,11396	13,87046	11,44108,2784	16,46285	
53	55237,35312,29204	66263,88058	1 19962,08513	9,74223,28597,7533	9,82127,68657	31:48
	14,54816,59104	25,11977	13,87732	11,43674,6943	16,46041	
54	55251,90128,88308	66289,00035	1 19975,96245	9,74234,72272,4476	9,82144,14698	32:24
	14,54648,28414	25,12558	13,88419	11,43241,3385	16,45798	
55	55266,44777,16722	66314,12593	1 19989,84664	9,74246,15513,7861	9,82160,60496	33: 0
	14,54479,93290	25,13139	13,89106	11,42808,2108	16,45556	
56	55280,99257,10012	66339,25732	1 20003,73770	9,74257,58321,9969	9,82177,06052	33:36
	14,54311,53738	25,13722	13,89793	11,42375,3111	16,45314	
57	55295,53568,63750	66364,39454	1 20017,63563	9,74269,00697,3080	9,82193,51366	34:12
	14,54143,09754	25,14304	13,90481	11,41942,6388	16,45071	
58	55310,07711,73504	66389,53758	1 20031,54044	9,74280,42639,9468	9,82209,96437	34:48
	14,53974,61341	25,14887	13,91169	11,41510,1943	16,44830	
59	55324,61686,34845	66414,68645	1 20045,45213	9,74291,84150,1411	9,82226,41267	35:24
	14,53806,08499	25,15470	13,91857	11,41077,9768	16,44587	
60	55339,15492,43344	66439,84115	1 20059,37070	9,74303,25228,1179	9,82242,85854	36: 0
	14,53637,51229	25,16054	13,92545	11,40645,9865	16,44347	
61	55353,69129,94573	66465,00169	1 20073,29615	9,74314,65874,1044	9,82259,30201	36:36
	14,53468,89530	25,16637	13,93235	11,40214,2230	16,44106	
62	55368,22598,84103	66490,16806	1 20087,22850	9,74326,06088,3274	9,82275,74307	37:12
	14,53300,23403	25,17221	13,93924	11,39782,6863	16,43864	
63	55382,75899,07506	66515,34027	1 20101,16774	9,74337,45871,0137	9,82292,18171	37:48
	14,53131,52851	25,17806	13,94613	11,39351,3759	16,43625	
64	55397,29030,60357	66540,51833	1 20115,11387	9,74348,85222,3896	9,82308,61796	38:24
	14,52962,77871	25,18391	13,95303	11,38920,2917	16,43384	
65	55411,81993,38228	66565,70224	1 20129,06690	9,74360,24142,6813	9,82325,05180	39: 0
	14,52793,98466	25,18976	13,95994	11,38489,4337	16,43144	
66	55426,34787,36694	66590,89200	1 20143,02684	9,74371,62632,1150	9,82341,48324	39:36
	14,52625,14635	25,19562	13,96684	11,38058,8015	16,42905	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	83551,97791,35462	1 52061,88182	1 81996,74696	9,92195,67353,3978	10,18202,03607	40:12
	9,59116,50940	57,79488	48,28600	4,98567,3920	16,50957	
66	83542,38674,84522	1 52004,08694	1 81948,46096	9,92190,68786,0058	10,18185,52650	39:36
	9,59370,99405	57,76422	48,25484	4,98756,9426	16,50709	
65	83532,79303,85117	1 51946,32272	1 81900,20612	9,92185,70029,0632	10,18169,01941	39: 0
	9,59625,44950	57,73360	48,22371	4,98946,5368	16,50461	
64	83523,19678,40167	1 51888,58912	1 81851,98241	9,92180,71082,5264	10,18152,51480	38:24
	9,59879,87570	57,70299	48,19262	4,99136,1745	16,50213	
63	83513,59798,52597	1 51830,88613	1 81803,78979	9,92175,71946,3519	10,18136,01267	37:48
	9,60134,27267	57,67242	48,16154	4,99325,8560	16,49965	
62	83503,99664,25330	1 51773,21371	1 81755,62825	9,92170,72620,4959	10,18119,51302	37:12
	9,60388,64038	57,64187	48,13050	4,99515,5809	16,49719	
61	83494,39275,61292	1 51715,57184	1 81707,49775	9,92165,73104,9150	10,18103,01583	36:36
	9,60642,97885	57,61136	48,09949	4,99705,3495	16,49471	
60	83484,78632,63407	1 51657,96048	1 81659,39826	9,92160,73399,5655	10,18086,52112	36: 0
	9,60897,28806	57,58086	48,06849	4,99895,1619	16,49224	
59	83475,17735,34601	1 51600,37962	1 81611,32977	9,92155,73504,4036	10,18070,02888	35:24
	9,61151,56798	57,55040	48,03753	5,00085,0179	16,48978	
58	83465,56583,77803	1 51542,82922	1 81563,29224	9,92150,73419,3857	10,18053,53910	34:48
	9,61405,81864	57,51997	48,00660	5,00274,9176	16,48731	
57	83455,95177,95939	1 51485,30925	1 81515,28564	9,92145,73144,4681	10,18037,05179	34:12
	9,61660,04000	57,48956	47,97570	5,00464,8611	16,48486	
56	83446,33517,91939	1 51427,81969	1 81467,30994	9,92140,72679,6070	10,18020,56693	33:36
	9,61914,23207	57,45917	47,94481	5,00654,8483	16,48240	
55	83436,71603,68732	1 51370,36052	1 81419,36513	9,92135,72024,7587	10,18004,08453	33: 0
	9,62168,39485	57,42883	47,91397	5,00844,8795	16,47995	
54	83427,09435,29247	1 51312,93169	1 81371,45116	9,92130,71179,8792	10,17987,60458	32:24
	9,62422,52831	57,39850	47,88314	5,01034,9544	16,47749	
53	83417,47012,76416	1 51255,53319	1 81323,56802	9,92125,70144,9248	10,17971,12709	31:48
	9,62676,63245	57,36820	47,85234	5,01225,0731	16,47505	
52	83407,84336,13171	1 51198,16499	1 81275,71568	9,92120,68919,8517	10,17954,65204	31:12
	9,62930,70727	57,33794	47,82157	5,01415,2359	16,47260	
51	83398,21405,42444	1 51140,82705	1 81227,89411	9,92115,67504,6158	10,17938,17944	30:36
	9,63184,75276	57,30769	47,79084	5,01605,4424	16,47016	
50	83388,58220,67168	1 51083,51936	1 81180,10327	9,92110,65899,1734	10,17921,70928	30: 0
	9,63438,76890	57,27747	47,76011	5,01795,6929	16,46772	
49	83378,94781,90278	1 51026,24189	1 81132,34316	9,92105,64103,4805	10,17905,24156	29:24
	9,63692,75571	57,24729	47,72943	5,01985,9875	16,46528	
48	83369,31089,14707	1 50968,99460	1 81084,61373	9,92100,62117,4930	10,17888,77628	28:48
	9,63946,71315	57,21713	47,69877	5,02176,3259	16,46285	
47	83359,67142,43392	1 50911,77747	1 81036,91496	9,92095,59941,1671	10,17872,31343	28:12
	9,64200,64122	57,18700	47,66813	5,02366,7085	16,46041	
46	83350,02941,79270	1 50854,59047	1 80989,24683	9,92090,57574,4586	10,17855,85302	27:36
	9,64454,53994	57,15689	47,63753	5,02557,1350	16,45798	
45	83340,38487,25276	1 50797,43358	1 80941,60930	9,92085,55017,3236	10,17839,39504	27: 0
	9,64708,40926	57,12681	47,60695	5,02747,6057	16,45556	
44	83330,73778,84350	1 50740,30677	1 80894,00235	9,92080,52269,7179	10,17822,93948	26:24
	9,64962,24921	57,09676	47,57640	5,02938,1204	16,45314	
43	83321,08816,59429	1 50683,21001	1 80846,42595	9,92075,49331,5975	10,17806,48634	25:48
	9,65216,05976	57,06673	47,54587	5,03128,6793	16,45071	
42	83311,43600,53453	1 50626,14328	1 80798,88008	9,92070,46202,9182	10,17790,03563	25:12
	9,65469,84090	57,03674	47,51537	5,03319,2823	16,44830	
41	83301,78130,69363	1 50569,10654	1 80751,36471	9,92065,42883,6359	10,17773,58733	24:36
	9,65723,59264	57,00677	47,48490	5,03509,9295	16,44587	
40	83292,12407,10099	1 50512,09977	1 80703,87981	9,92060,39373,7064	10,17757,14146	24: 0
	9,65977,31495	56,97683	47,45446	5,03700,6210	16,44347	
39	83282,46429,78604	1 50455,12294	1 80656,42535	9,92055,35673,0854	10,17740,69799	23:24
	9,66231,00785	56,94691	47,42404	5,03891,3567	16,44106	
38	83272,80198,77819	1 50398,17603	1 80609,00131	9,92050,31781,7287	10,17724,25693	22:48
	9,66484,67131	56,91702	47,39365	5,04082,1365	16,43864	
37	83263,13714,10688	1 50341,25901	1 80561,60766	9,92045,27699,5922	10,17707,81829	22:12
	9,66738,30533	56,88716	47,36329	5,04272,9608	16,43625	
36	83253,46975,80155	1 50284,37185	1 80514,24437	9,92040,23426,6314	10,17691,38204	21:36
	9,66991,90990	56,85733	47,33294	5,04463,8294	16,43384	
35	83243,79983,89165	1 50227,51452	1 80466,91143	9,92035,18962,8020	10,17674,94820	21: 0
	9,67245,48502	56,82751	47,30264	5,04654,7422	16,43144	
34	83234,12738,40663	1 50170,68701	1 80419,60879	9,92030,14308,0598	10,17658,51676	20:24
	9,67499,03066	56,79774	47,27235	5,04845,6996	16,42905	

GRAD. 56.

33. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	55440,87412,51329	66616,08762	1 20156,99368	9,74383,00690,9165	9,82357,91229	40:12
	14,52456,26378	25,20147	13,97375	11,37628,3948	16,42665	
68	55455,39868,77707	66641,28909	1 20170,96743	9,74394,38319,3113	9,82374,33894	40:48
	14,52287,33698	25,20734	13,98066	11,37198,2137	16,42426	
69	55469,92156,11405	66666,49643	1 20184,94809	9,74405,75517,5250	9,82390,76320	41:24
	14,52118,36594	25,21321	13,98757	11,36768,2577	16,42187	
70	55484,44274,47999	66691,70964	1 20198,93566	9,74417,12285,7827	9,82407,18507	42: 0
	14,51949,35066	25,21907	13,99450	11,36338,5268	16,41948	
71	55498,96223,83065	66716,92871	1 20212,93016	9,74428,48624,3095	9,82423,60455	42:36
	14,51780,29116	25,22495	14,00141	11,35909,0207	16,41710	
72	55513,48004,12181	66742,15366	1 20226,93157	9,74439,84533,3302	9,82440,02165	43:12
	14,51611,18742	25,23083	14,00835	11,35479,7392	16,41472	
73	55527,99615,30923	66767,38449	1 20240,93992	9,74451,20013,0694	9,82456,43637	43:48
	14,51442,03948	25,23671	14,01527	11,35050,6822	16,41235	
74	55542,51057,34871	66792,62120	1 20254,95519	9,74462,55063,7516	9,82472,84872	44:24
	14,51272,84731	25,24259	14,02220	11,34621,8493	16,40997	
75	55557,02330,19602	66817,86379	1 20268,97739	9,74473,89685,6009	9,82489,25869	45: 0
	14,51103,61095	25,24848	14,02913	11,34193,2405	16,40759	
76	55571,53433,80697	66843,11227	1 20283,00652	9,74485,23878,8414	9,82505,66628	45:36
	14,50934,33036	25,25438	14,03608	11,33764,8554	16,40523	
77	55586,04368,13733	66868,36665	1 20297,04260	9,74496,57643,6968	9,82522,07151	46:12
	14,50765,00560	25,26026	14,04301	11,33336,6940	16,40286	
78	55600,55133,14293	66893,62691	1 20311,08561	9,74507,90980,3908	9,82538,47437	46:48
	14,50595,63664	25,26617	14,04997	11,32908,7560	16,40049	
79	55615,05728,77957	66918,89308	1 20325,13558	9,74519,23889,1468	9,82554,87486	47:24
	14,50426,22348	25,27207	14,05690	11,32481,0411	16,39813	
80	55629,56155,00305	66944,16515	1 20339,19248	9,74530,56370,1879	9,82571,27299	48: 0
	14,50256,76614	25,27798	14,06387	11,32053,5494	16,39578	
81	55644,06411,76919	66969,44313	1 20353,25635	9,74541,88423,7373	9,82587,66877	48:36
	14,50087,26464	25,28388	14,07081	11,31626,2804	16,39341	
82	55658,56499,03383	66994,72701	1 20367,32716	9,74553,20050,0177	9,82604,06218	49:12
	14,49917,71895	25,28980	14,07777	11,31199,2340	16,39107	
83	55673,06416,75278	67020,01681	1 20381,40493	9,74564,51249,2517	9,82620,45325	49:48
	14,49748,12910	25,29572	14,08474	11,30772,4100	16,38871	
84	55687,56164,88188	67045,31253	1 20395,48967	9,74575,82021,6617	9,82636,84196	50:24
	14,49578,49509	25,30164	14,09170	11,30345,8082	16,38636	
85	55702,05743,37697	67070,61417	1 20409,58137	9,74587,12367,4699	9,82653,22832	51: 0
	14,49408,81691	25,30756	14,09866	11,29919,4285	16,38402	
86	55716,55152,19388	67095,92173	1 20423,68003	9,74598,42286,8984	9,82669,61234	51:36
	14,49239,09460	25,31349	14,10564	11,29493,2705	16,38167	
87	55731,04391,28848	67121,23522	1 20437,78567	9,74609,71780,1689	9,82685,99401	52:12
	14,49069,32813	25,31942	14,11261	11,29067,3342	16,37934	
88	55745,53460,61661	67146,55464	1 20451,89828	9,74621,00847,5031	9,82702,37335	52:48
	14,48899,51752	25,32536	14,11959	11,28641,6192	16,37699	
89	55760,02360,13413	67171,88000	1 20466,01787	9,74632,29489,1223	9,82718,75034	53:24
	14,48729,66277	25,33129	14,12658	11,28216,1255	16,37467	
90	55774,51089,79690	67197,21129	1 20480,14445	9,74643,57705,2478	9,82735,12501	54: 0
	14,48559,76390	25,33724	14,13355	11,27790,8527	16,37233	
91	55788,99649,56080	67222,54853	1 20494,27800	9,74654,85496,1005	9,82751,49734	54:36
	14,48389,82090	25,34319	14,14054	11,27365,8009	16,36999	
92	55803,48039,38170	67247,89172	1 20508,41854	9,74666,12861,9014	9,82767,86733	55:12
	14,48219,83377	25,34913	14,14754	11,26940,9696	16,36768	
93	55817,96259,21547	67273,24085	1 20522,56608	9,74677,39802,8710	9,82784,23501	55:48
	14,48049,80254	25,35509	14,15453	11,26516,3587	16,36534	
94	55832,44309,01801	67298,59594	1 20536,72061	9,74688,66319,2297	9,82800,60035	56:24
	14,47879,72720	25,36104	14,16152	11,26091,9681	16,36303	
95	55846,92188,74521	67323,95698	1 20550,88213	9,74699,92411,1978	9,82816,96338	57: 0
	14,47709,60774	25,36701	14,16853	11,25667,7974	16,36071	
96	55861,39898,35295	67349,32399	1 20565,05066	9,74711,18078,9952	9,82833,32409	57:36
	14,47539,44418	25,37296	14,17553	11,25243,8467	16,35839	
97	55875,87437,79713	67374,69695	1 20579,22619	9,74722,43322,8419	9,82849,68248	58:12
	14,47369,23655	25,37894	14,18254	11,24820,1155	16,35607	
98	55890,34807,03368	67400,07589	1 20593,40873	9,74733,68142,9574	9,82866,03855	58:48
	14,47198,98480	25,38491	14,18956	11,24396,6038	16,35377	
99	55904,82006,01848	67425,46080	1 20607,59829	9,74744,92539,5612	9,82882,39232	59:24
	14,47028,68899	25,39088	14,19656	11,23973,3113	16,35146	
100	55919,29034,70747	67450,85168	1 20621,79485	9,74756,16512,8725	9,82898,74378	60: 0
	14,46858,34909	25,39687	14,20358	11,23550,2378	16,34915	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	83224,45239,37597	1 50113,88927	1 80372,33644	9,92025,09462,3602	10,17642,08771	19:48
	9,67752,54685	56,76798	47,24210	5,05036,7011	16,42665	
32	83214,77486,82912	1 50057,12129	1 80325,09434	9,92020,04425,6591	10,17625,66106	19:12
	9,68006,03354	56,73826	47,21187	5,05227,7473	16,42426	
31	83205,09480,79558	1 50000,38303	1 80277,88247	9,92014,99197,9118	10,17609,23680	18:36
	9,68259,49075	56,70856	47,18166	5,05418,8378	16,42187	
30	83195,41221,30483	1 49943,67447	1 80230,70081	9,92009,93779,0740	10,17592,81493	18: 0
	9,68512,91848	56,67888	47,15148	5,05609,9729	16,41948	
29	83185,72708,38635	1 49886,99559	1 80183,54933	9,92004,88169,1011	10,17576,39545	17:24
	9,68766,31669	56,64923	47,12134	5,05801,1524	16,41710	
28	83176,03942,06966	1 49830,34636	1 80136,42799	9,91999,82367,9487	10,17559,97835	16:48
	9,69019,68539	56,61962	47,09121	5,05992,3765	16,41472	
27	83166,34922,38427	1 49773,72674	1 80089,33678	9,91994,76375,5722	10,17543,56363	16:12
	9,69273,02458	56,59002	47,06111	5,06183,6451	16,41235	
26	83156,65649,35969	1 49717,13672	1 80042,27567	9,91989,70191,9271	10,17527,15128	15:36
	9,69526,33424	56,56045	47,03104	5,06374,9584	16,40997	
25	83146,96123,02545	1 49660,57627	1 79995,24463	9,91984,63816,9687	10,17510,74131	15: 0
	9,69779,61436	56,53092	47,00100	5,06566,3162	16,40759	
24	83137,26343,41109	1 49604,04535	1 79948,24363	9,91979,57250,6525	10,17494,33372	14:24
	9,70032,86496	56,50140	46,97098	5,06757,7187	16,40523	
23	83127,56310,54613	1 49547,54395	1 79901,27265	9,91974,50492,9338	10,17477,92849	13:48
	9,70286,08599	56,47191	46,94098	5,06949,1658	16,40286	
22	83117,86024,46014	1 49491,07204	1 79854,33167	9,91969,43543,7680	10,17461,52563	13:12
	9,70539,27747	56,44245	46,91102	5,07140,6578	16,40049	
21	83108,15485,18267	1 49434,62959	1 79807,42065	9,91964,36403,1102	10,17445,12514	12:36
	9,70792,43939	56,41302	46,88108	5,07332,1943	16,39813	
20	83098,44692,74328	1 49378,21657	1 79760,53957	9,91959,29070,9159	10,17428,72701	12: 0
	9,71045,57173	56,38361	46,85117	5,07523,7757	16,39578	
19	83088,73647,17155	1 49321,83296	1 79713,68840	9,91954,21547,1402	10,17412,33123	11:24
	9,71298,67450	56,35423	46,82128	5,07715,4019	16,39341	
18	83079,02348,49705	1 49265,47873	1 79666,86712	9,91949,13831,7383	10,17395,93782	10:48
	9,71551,74767	56,32488	46,79142	5,07907,0728	16,39107	
17	83069,30796,74938	1 49209,15385	1 79620,07570	9,91944,05924,6655	10,17379,54675	10:12
	9,71804,79125	56,29554	46,76159	5,08098,7885	16,38871	
16	83059,58991,95813	1 49152,85831	1 79573,31411	9,91938,97825,8770	10,17363,15804	9:36
	9,72057,80524	56,26625	46,73178	5,08290,5492	16,38636	
15	83049,86934,15289	1 49096,59206	1 79526,58233	9,91933,89535,3278	10,17346,77168	9: 0
	9,72310,78960	56,23697	46,70199	5,08482,3548	16,38402	
14	83040,14623,36329	1 49040,35509	1 79479,88034	9,91928,81052,9730	10,17330,38766	8:24
	9,72563,74435	56,20772	46,67224	5,08674,2052	16,38167	
13	83030,42059,61894	1 48984,14737	1 79433,20810	9,91923,72378,7678	10,17314,00599	7:48
	9,72816,66948	56,17849	46,64251	5,08866,1006	16,37934	
12	83020,69242,94946	1 48927,96888	1 79386,56559	9,91918,63512,6672	10,17297,62665	7:12
	9,73069,56497	56,14930	46,61280	5,09058,0410	16,37699	
11	83010,96173,38449	1 48871,81958	1 79339,95279	9,91913,54454,6262	10,17281,24966	6:36
	9,73322,43082	56,12013	46,58313	5,09250,0264	16,37467	
10	83001,22850,95367	1 48815,69945	1 79293,36966	9,91908,45204,5998	10,17264,87499	6: 0
	9,73575,26701	56,09098	46,55347	5,09442,0568	16,37233	
9	82991,49275,68666	1 48759,60847	1 79246,81619	9,91903,35762,5430	10,17248,50266	5:24
	9,73828,07356	56,06186	46,52385	5,09634,1322	16,36999	
8	82981,75447,61310	1 48703,54661	1 79200,29234	9,91898,26128,4108	10,17232,13267	4:48
	9,74080,85044	56,03277	46,49425	5,09826,2528	16,36768	
7	82972,01366,76266	1 48647,51384	1 79153,79809	9,91893,16302,1580	10,17215,76499	4:12
	9,74333,59765	56,00371	46,46467	5,10018,4185	16,36534	
6	82962,27033,16501	1 48591,51013	1 79107,33342	9,91888,06283,7395	10,17199,39965	3:36
	9,74586,31517	55,97466	46,43513	5,10210,6293	16,36303	
5	82952,52446,84984	1 48535,53547	1 79060,89829	9,91882,96073,1102	10,17183,03662	3: 0
	9,74839,00301	55,94565	46,40560	5,10402,8852	16,36071	
4	82942,77607,84683	1 48479,58982	1 79014,49269	9,91877,85670,2250	10,17166,67591	2:24
	9,75091,66115	55,91666	46,37610	5,10595,1864	16,35839	
3	82933,02516,18568	1 48423,67316	1 78968,11659	9,91872,75075,0386	10,17150,31752	1:48
	9,75344,28960	55,88770	46,34664	5,10787,5328	16,35607	
2	82923,27171,89608	1 48367,78546	1 78921,76995	9,91867,64287,5058	10,17133,96145	1:12
	9,75596,88833	55,85876	46,31719	5,10979,9245	16,35377	
1	82913,51575,00775	1 48311,92670	1 78875,45276	9,91862,53307,5813	10,17117,60768	0:36
	9,75849,45733	55,82985	46,28776	5,11172,3613	16,35146	
0	82903,75725,55042	1 48256,09685	1 78829,16500	9,91857,42135,2200	10,17101,25622	0: 0
	9,76101,99663	55,80096	46,25838	5,11364,8436	16,34915	

GRAD. 56.

34. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
0	55919,29034,70747	67450,85168	1 20621,79485	9,74756,16512,8725	9,82898,74378	0: 0
	14,46858,34909	25,39687	14,20358	11,23550,2378	16,34915	
1	55933,75893,05656	67476,24855	1 20635,99843	9,74767,40063,1103	9,82915,09293	0:36
	14,46687,96511	25,40284	14,21061	11,23127,3833	16,34684	
2	55948,22581,02167	67501,65139	1 20650,20904	9,74778,63190,4936	9,82931,43977	1:12
	14,46517,53707	25,40883	14,21763	11,22704,7473	16,34455	
3	55962,69098,55874	67527,06022	1 20664,42667	9,74789,85895,2409	9,82947,78432	1:48
	14,46347,06497	25,41483	14,22465	11,22282,3299	16,34225	
4	55977,15445,62371	67552,47505	1 20678,65132	9,74801,08177,5708	9,82964,12657	2:24
	14,46176,54881	25,42081	14,23169	11,21860,1306	16,33995	
5	55991,61622,17252	67577,89586	1 20692,88301	9,74812,30037,7014	9,82980,46652	3: 0
	14,46005,98858	25,42681	14,23872	11,21438,1495	16,33767	
6	56006,07628,16110	67603,32267	1 20707,12173	9,74823,51475,8509	9,82996,80419	3:36
	14,45835,38433	25,43282	14,24576	11,21016,3862	16,33537	
7	56020,53463,54543	67628,75549	1 20721,36749	9,74834,72492,2371	9,83013,13956	4:12
	14,45664,73602	25,43882	14,25280	11,20594,8406	16,33308	
8	56034,99128,28145	67654,19431	1 20735,62029	9,74845,93087,0777	9,83029,47264	4:48
	14,45494,04367	25,44482	14,25985	11,20173,5125	16,33080	
9	56049,44622,32512	67679,63913	1 20749,88014	9,74857,13260,5902	9,83045,80344	5:24
	14,45323,30730	25,45084	14,26689	11,19752,4016	16,32851	
10	56063,89945,63242	67705,08997	1 20764,14703	9,74868,33012,9918	9,83062,13195	6: 0
	14,45152,52689	25,45685	14,27394	11,19331,5079	16,32624	
11	56078,35098,15931	67730,54682	1 20778,42097	9,74879,52344,4997	9,83078,45819	6:36
	14,44981,70247	25,46288	14,28100	11,18910,8311	16,32396	
12	56092,80079,86178	67756,00970	1 20792,70197	9,74890,71255,3308	9,83094,78215	7:12
	14,44810,83403	25,46889	14,28806	11,18490,3709	16,32169	
13	56107,24890,69581	67781,47859	1 20806,99003	9,74901,89745,7017	9,83111,10384	7:48
	14,44639,92157	25,47493	14,29512	11,18070,1274	16,31941	
14	56121,69530,61738	67806,95352	1 20821,28515	9,74913,07815,8291	9,83127,42325	8:24
	14,44468,96511	25,48095	14,30218	11,17650,1000	16,31714	
15	56136,13999,58249	67832,43447	1 20835,58733	9,74924,25465,9291	9,83143,74039	9: 0
	14,44297,96465	25,48699	14,30925	11,17230,2889	16,31488	
16	56150,58297,54714	67857,92146	1 20849,89658	9,74935,42696,2180	9,83160,05527	9:36
	14,44126,92020	25,49302	14,31633	11,16810,6937	16,31262	
17	56165,02424,46734	67883,41448	1 20864,21291	9,74946,59506,9117	9,83176,36789	10:12
	14,43955,83175	25,49907	14,32340	11,16391,3143	16,31035	
18	56179,46380,29909	67908,91355	1 20878,53631	9,74957,75898,2260	9,83192,67824	10:48
	14,43784,69931	25,50511	14,33047	11,15972,1503	16,30809	
19	56193,90164,99840	67934,41866	1 20892,86678	9,74968,91870,3763	9,83208,98633	11:24
	14,43613,52291	25,51116	14,33756	11,15553,2018	16,30584	
20	56208,33778,52131	67959,92982	1 20907,20434	9,74980,07423,5781	9,83225,29217	12: 0
	14,43442,30251	25,51722	14,34464	11,15134,4684	16,30359	
21	56222,77220,82382	67985,44704	1 20921,54898	9,74991,22558,0465	9,83241,59576	12:36
	14,43271,03816	25,52327	14,35174	11,14715,9500	16,30133	
22	56237,20491,86198	68010,97031	1 20935,90072	9,75002,37273,9965	9,83257,89709	13:12
	14,43099,72983	25,52933	14,35882	11,14297,6464	16,29909	
23	56251,63591,59181	68036,49964	1 20950,25954	9,75013,51571,6429	9,83274,19618	13:48
	14,42928,37756	25,53539	14,36592	11,13879,5574	16,29684	
24	56266,06519,96937	68062,03503	1 20964,62546	9,75024,65451,2003	9,83290,49302	14:24
	14,42756,98132	25,54146	14,37302	11,13461,6828	16,29460	
25	56280,49276,95069	68087,57649	1 20978,99848	9,75035,78912,8831	9,83306,78762	15: 0
	14,42585,54113	25,54753	14,38012	11,13044,0224	16,29235	
26	56294,91862,49182	68113,12402	1 20993,37860	9,75046,91956,9055	9,83323,07997	15:36
	14,42414,05700	25,55361	14,38722	11,12626,5761	16,29012	
27	56309,34276,54882	68138,67763	1 21007,76582	9,75058,04583,4816	9,83339,37009	16:12
	14,42242,52894	25,55968	14,39434	11,12209,3435	16,28789	
28	56323,76519,07776	68164,23731	1 21022,16016	9,75069,16792,8251	9,83355,65798	16:48
	14,42070,95694	25,56577	14,40144	11,11792,3247	16,28565	
29	56338,18590,03470	68189,80308	1 21036,56160	9,75080,28585,1498	9,83371,94363	17:24
	14,41899,34101	25,57186	14,40856	11,11375,5193	16,28342	
30	56352,60489,37571	68215,37494	1 21050,97016	9,75091,39960,6691	9,83388,22705	18: 0
	14,41727,68117	25,57794	14,41569	11,10958,9271	16,28120	
31	56367,02217,05688	68240,95288	1 21065,38585	9,75102,50919,5962	9,83404,50825	18:36
	14,41555,97739	25,58404	14,42280	11,10542,5481	16,27897	
32	56381,43773,03427	68266,53692	1 21079,80865	9,75113,61462,1443	9,83420,78722	19:12
	14,41384,22971	25,59013	14,42993	11,10126,3819	16,27674	
33	56395,85157,26398	68292,12705	1 21094,23858	9,75124,71588,5262	9,83437,06396	19:48
	14,41212,43812	25,59624	14,43706	11,09710,4284	16,27453	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
100	82903,75725,55042	1 48256,09685	1 78829,16500	9,91857,42135,2200	10,17101,25622	60: 0
	9,76101,99663	55,80096	46,25838	5,11364,8436	16,34915	
99	82893,99623,55379	1 48200,29589	1 78782,90662	9,91852,30770,3764	10,17084,90707	59:24
	9,76354,50617	55,77211	46,22900	5,11557,3711	16,34684	
98	82884,23269,04762	1 48144,52378	1 78736,67762	9,91847,19213,0053	10,17068,56023	58:48
	9,76606,98599	55,74327	46,19966	5,11749,9441	16,34455	
97	82874,46662,06163	1 48088,78051	1 78690,47796	9,91842,07463,0612	10,17052,21568	58:12
	9,76859,43604	55,71447	46,17035	5,11942,5624	16,34225	
96	82864,69802,62559	1 48033,06604	1 78644,30761	9,91836,95520,4988	10,17035,87343	57:36
	9,77111,85635	55,68568	46,14105	5,12135,2260	16,33995	
95	82854,92690,76924	1 47977,38036	1 78598,16656	9,91831,83385,2728	10,17019,53348	57: 0
	9,77364,24689	55,65692	46,11178	5,12327,9353	16,33767	
94	82845,15326,52235	1 47921,72344	1 78552,05478	9,91826,71057,3375	10,17003,19581	56:24
	9,77616,60766	55,62820	46,08255	5,12520,6899	16,33537	
93	82835,37709,91469	1 47866,09524	1 78505,97223	9,91821,58536,6476	10,16986,86044	55:48
	9,77868,93865	55,59949	46,05333	5,12713,4900	16,33308	
92	82825,59840,97604	1 47810,49575	1 78459,91890	9,91816,45823,1576	10,16970,52736	55:12
	9,78121,23984	55,57081	46,02414	5,12906,3357	16,33080	
91	82815,81719,73620	1 47754,92494	1 78413,89476	9,91811,32916,8219	10,16954,19656	54:36
	9,78373,51126	55,54215	45,99497	5,13099,2269	16,32851	
90	82806,03346,22494	1 47699,38279	1 78367,89979	9,91806,19817,5950	10,16937,86805	54: 0
	9,78625,75285	55,51353	45,96584	5,13292,1637	16,32624	
89	82796,24720,47209	1 47643,86926	1 78321,93395	9,91801,06525,4313	10,16921,54181	53:24
	9,78877,96464	55,48493	45,93672	5,13485,1462	16,32396	
88	82786,45842,50745	1 47588,38433	1 78275,99723	9,91795,93040,2851	10,16905,21785	52:48
	9,79130,14662	55,45635	45,90763	5,13678,1742	16,32169	
87	82776,66712,36083	1 47532,92798	1 78230,08960	9,91790,79362,1109	10,16888,89616	52:12
	9,79382,29876	55,42779	45,87857	5,13871,2479	16,31941	
86	82766,87330,06207	1 47477,50019	1 78184,21103	9,91785,65490,8630	10,16872,57675	51:36
	9,79634,42108	55,39927	45,84953	5,14064,3674	16,31714	
85	82757,07695,64099	1 47422,10092	1 78138,36150	9,91780,51426,4956	10,16856,25961	51: 0
	9,79886,51355	55,37077	45,82051	5,14257,5325	16,31488	
84	82747,27809,12744	1 47366,73015	1 78092,54099	9,91775,37168,9631	10,16839,94473	50:24
	9,80138,57617	55,34229	45,79153	5,14450,7434	16,31262	
83	82737,47670,55127	1 47311,38786	1 78046,74946	9,91770,22718,2197	10,16823,63211	49:48
	9,80390,60894	55,31384	45,76257	5,14644,0000	16,31035	
82	82727,67279,94233	1 47256,07402	1 78000,98689	9,91765,08074,2197	10,16807,32176	49:12
	9,80642,61184	55,28542	45,73363	5,14837,3026	16,30809	
81	82717,86637,33049	1 47200,78860	1 77955,25326	9,91759,93236,9171	10,16791,01367	48:36
	9,80894,58487	55,25702	45,70471	5,15030,6509	16,30584	
80	82708,05742,74562	1 47145,53158	1 77909,54855	9,91754,78206,2662	10,16774,70783	48: 0
	9,81146,52802	55,22864	45,67583	5,15224,0450	16,30359	
79	82698,24596,21760	1 47090,30294	1 77863,87272	9,91749,62982,2212	10,16758,40424	47:24
	9,81398,44128	55,20029	45,64697	5,15417,4852	16,30133	
78	82688,43197,77632	1 47035,10265	1 77818,22575	9,91744,47564,7360	10,16742,10291	46:48
	9,81650,32465	55,17197	45,61812	5,15610,9711	16,29909	
77	82678,61547,45167	1 46979,93068	1 77772,60763	9,91739,31953,7649	10,16725,80382	46:12
	9,81902,17812	55,14367	45,58932	5,15804,5031	16,29684	
76	82668,79645,27355	1 46924,78701	1 77727,01831	9,91734,16149,2618	10,16709,50698	45:36
	9,82154,00166	55,11540	45,56053	5,15998,0810	16,29460	
75	82658,97491,27189	1 46869,67161	1 77681,45778	9,91729,00151,1808	10,16693,21238	45: 0
	9,82405,79531	55,08714	45,53176	5,16191,7049	16,29235	
74	82649,15085,47658	1 46814,58447	1 77635,92602	9,91723,83959,4759	10,16676,92003	44:24
	9,82657,55901	55,05893	45,50303	5,16385,3749	16,29012	
73	82639,32427,91757	1 46759,52554	1 77590,42299	9,91718,67574,1010	10,16660,62991	43:48
	9,82909,29279	55,03072	45,47431	5,16579,0909	16,28789	
72	82629,49518,62478	1 46704,49482	1 77544,94868	9,91713,50995,0101	10,16644,34202	43:12
	9,83160,99663	55,00255	45,44563	5,16772,8530	16,28565	
71	82619,66357,62815	1 46649,49227	1 77499,50305	9,91708,34222,1571	10,16628,05637	42:36
	9,83412,67051	54,97440	45,41696	5,16966,6613	16,28342	
70	82609,82944,95764	1 46594,51787	1 77454,08609	9,91703,17255,4958	10,16611,77295	42: 0
	9,83664,31444	54,94628	45,38833	5,17160,5156	16,28120	
69	82599,99280,64320	1 46539,57159	1 77408,69776	9,91698,00094,9802	10,16595,49175	41:24
	9,83915,92841	54,91818	45,35971	5,17354,4162	16,27897	
68	82590,15364,71479	1 46484,65341	1 77363,33805	9,91692,82740,5640	10,16579,21278	40:48
	9,84167,51241	54,89010	45,33112	5,17548,3629	16,27674	
67	82580,31197,20238	1 46429,76331	1 77318,00693	9,91687,65192,2011	10,16562,93604	40:12
	9,84419,06642	54,86206	45,30256	5,17742,3559	16,27453	

GRAD. 55.

34. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	56395,85157,26398	68292,12705	1 21094,23858	9,75124,71588,5262	9,83437,06396	19:48
	14,41212,43812	25,59624	14,43706	11,09710,4284	16,27453	
34	56410,26369,70210	68317,72329	1 21108,67564	9,75135,81298,9546	9,83453,33849	20:24
	14,41040,60264	25,60234	14,44419	11,09294,6875	16,27231	
35	56424,67410,30474	68343,32563	1 21123,11983	9,75146,90593,6421	9,83469,61080	21: 0
	14,40868,72325	25,60845	14,45133	11,08879,1589	16,27010	
36	56439,08279,02799	68368,93408	1 21137,57116	9,75157,99472,8010	9,83485,88090	21:36
	14,40696,79997	25,61456	14,45847	11,08463,8424	16,26788	
37	56453,48975,82796	68394,54864	1 21152,02963	9,75169,07936,6434	9,83502,14878	22:12
	14,40524,83281	25,62068	14,46561	11,08048,7378	16,26568	
38	56467,89500,66077	68420,16932	1 21166,49524	9,75180,15985,3812	9,83518,41446	22:48
	14,40352,82177	25,62679	14,47276	11,07633,8451	16,26347	
39	56482,29853,48254	68445,79611	1 21180,96800	9,75191,23619,2263	9,83534,67793	23:24
	14,40180,76684	25,63292	14,47991	11,07219,1639	16,26126	
40	56496,70034,24938	68471,42903	1 21195,44791	9,75202,30838,3902	9,83550,93919	24: 0
	14,40008,66805	25,63905	14,48706	11,06804,6941	16,25906	
41	56511,10042,91743	68497,06808	1 21209,93497	9,75213,37643,0843	9,83567,19825	24:36
	14,39836,52540	25,64518	14,49422	11,06390,4355	16,25687	
42	56525,49879,44283	68522,71326	1 21224,42919	9,75224,44033,5198	9,83583,45512	25:12
	14,39664,33888	25,65131	14,50138	11,05976,3879	16,25467	
43	56539,89543,78171	68548,36457	1 21238,93057	9,75235,50009,9077	9,83599,70979	25:48
	14,39492,10852	25,65746	14,50854	11,05562,5511	16,25247	
44	56554,29035,89023	68574,02203	1 21253,43911	9,75246,55572,4588	9,83615,96226	26:24
	14,39319,83429	25,66359	14,51571	11,05148,9250	16,25028	
45	56568,68355,72452	68599,68562	1 21267,95482	9,75257,60721,3838	9,83632,21254	27: 0
	14,39147,51623	25,66974	14,52289	11,04735,5094	16,24810	
46	56583,07503,24075	68625,35536	1 21282,47771	9,75268,65456,8932	9,83648,46064	27:36
	14,38975,15433	25,67589	14,53005	11,04322,3040	16,24590	
47	56597,46478,39508	68651,03125	1 21297,00776	9,75279,69779,1972	9,83664,70654	28:12
	14,38802,74859	25,68205	14,53724	11,03909,3087	16,24373	
48	56611,85281,14367	68676,71330	1 21311,54500	9,75290,73688,5059	9,83680,95027	28:48
	14,38630,29902	25,68820	14,54441	11,03496,5233	16,24154	
49	56626,23911,44269	68702,40150	1 21326,08941	9,75301,77185,0292	9,83697,19181	29:24
	14,38457,80564	25,69436	14,55160	11,03083,9476	16,23937	
50	56640,62369,24833	68728,09586	1 21340,64101	9,75312,80268,9768	9,83713,43118	30: 0
	14,38285,26843	25,70053	14,55879	11,02671,5815	16,23719	
51	56655,00654,51676	68753,79639	1 21355,19980	9,75323,82940,5583	9,83729,66837	30:36
	14,38112,68741	25,70669	14,56598	11,02259,4247	16,23501	
52	56669,38767,20417	68779,50308	1 21369,76578	9,75334,85199,9830	9,83745,90338	31:12
	14,37940,06259	25,71287	14,57317	11,01847,4770	16,23285	
53	56683,76707,26676	68805,21595	1 21384,33895	9,75345,87047,4600	9,83762,13623	31:48
	14,37767,39396	25,71905	14,58037	11,01435,7383	16,23067	
54	56698,14474,66072	68830,93500	1 21398,91932	9,75356,88483,1983	9,83778,36690	32:24
	14,37594,68153	25,72522	14,58758	11,01024,2085	16,22852	
55	56712,52069,34225	68856,66022	1 21413,50690	9,75367,89507,4068	9,83794,59542	33: 0
	14,37421,92531	25,73141	14,59478	11,00612,8872	16,22634	
56	56726,89491,26756	68882,39163	1 21428,10168	9,75378,90120,2940	9,83810,82176	33:36
	14,37249,12532	25,73760	14,60199	11,00201,7744	16,22419	
57	56741,26740,39288	68908,12923	1 21442,70367	9,75389,90322,0684	9,83827,04595	34:12
	14,37076,28153	25,74379	14,60920	10,99790,8698	16,22203	
58	56755,63816,67441	68933,87302	1 21457,31287	9,75400,90112,9382	9,83843,26798	34:48
	14,36903,39396	25,74998	14,61642	10,99380,1733	16,21988	
59	56770,00720,06837	68959,62300	1 21471,92929	9,75411,89493,1115	9,83859,48786	35:24
	14,36730,46264	25,75619	14,62363	10,98969,6845	16,21772	
60	56784,37450,53101	68985,37919	1 21486,55292	9,75422,88462,7960	9,83875,70558	36: 0
	14,36557,48754	25,76238	14,63086	10,98559,4037	16,21557	
61	56798,74008,01855	69011,14157	1 21501,18378	9,75433,87022,1997	9,83891,92115	36:36
	14,36384,46869	25,76860	14,63809	10,98149,3301	16,21342	
62	56813,10392,48724	69036,91017	1 21515,82187	9,75444,85171,5298	9,83908,13457	37:12
	14,36211,40608	25,77480	14,64532	10,97739,4641	16,21128	
63	56827,46603,89332	69062,68497	1 21530,46719	9,75455,82910,9939	9,83924,34585	37:48
	14,36038,29971	25,78102	14,65255	10,97329,8050	16,20914	
64	56841,82642,19303	69088,46599	1 21545,11974	9,75466,80240,7989	9,83940,55499	38:24
	14,35865,14961	25,78723	14,65979	10,96920,3531	16,20699	
65	56856,18507,34264	69114,25322	1 21559,77953	9,75477,77161,1520	9,83956,76198	39: 0
	14,35691,95577	25,79346	14,66702	10,96511,1078	16,20486	
66	56870,54199,29841	69140,04668	1 21574,44655	9,75488,73672,2598	9,83972,96684	39:36
	14,35518,71819	25,79968	14,67428	10,96102,0691	16,20273	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	82580,31197,20238	1 46429,76331	1 77318,00693	9,91687,65192,2011	10,16562,93604	40:12
	9,84419,06642	54,86206	45,30256	5,17742,3559	16,27453	
66	82570,46778,13596	1 46374,90125	1 77272,70437	9,91682,47449,8452	10,16546,66151	39:36
	9,84670,59044	54,83403	45,27401	5,17936,3951	16,27231	
65	82560,62107,54552	1 46320,06722	1 77227,43036	9,91677,29513,4501	10,16530,38920	39: 0
	9,84922,08448	54,80603	45,24550	5,18130,4806	16,27010	
64	82550,77185,46104	1 46265,26119	1 77182,18486	9,91672,11382,9695	10,16514,11910	38:24
	9,85173,54851	54,77806	45,21702	5,18324,6125	16,26788	
63	82540,92011,91253	1 46210,48313	1 77136,96784	9,91666,93058,3570	10,16497,85122	37:48
	9,85424,98253	54,75011	45,18854	5,18518,7907	16,26568	
62	82531,06586,93000	1 46155,73302	1 77091,77930	9,91661,74539,5663	10,16481,58554	37:12
	9,85676,38654	54,72218	45,16010	5,18713,0153	16,26347	
61	82521,20910,54346	1 46101,01084	1 77046,61920	9,91656,55826,5510	10,16465,32207	36:36
	9,85927,76051	54,69428	45,13169	5,18907,2862	16,26126	
60	82511,34982,78295	1 46046,31656	1 77001,48751	9,91651,36919,2648	10,16449,06081	36: 0
	9,86179,10445	54,66641	45,10329	5,19101,6035	16,25906	
59	82501,48803,67850	1 45991,65015	1 76956,38422	9,91646,17817,6613	10,16432,80175	35:24
	9,86430,41836	54,63855	45,07493	5,19295,9675	16,25687	
58	82491,62373,26014	1 45937,01160	1 76911,30929	9,91640,98521,6938	10,16416,54488	34:48
	9,86681,70222	54,61073	45,04658	5,19490,3778	16,25467	
57	82481,75691,55792	1 45882,40087	1 76866,26271	9,91635,79031,3160	10,16400,29021	34:12
	9,86932,95601	54,58292	45,01826	5,19684,8346	16,25247	
56	82471,88758,60191	1 45827,81795	1 76821,24445	9,91630,59346,4814	10,16384,03774	33:36
	9,87184,17975	54,55515	44,98997	5,19879,3380	16,25028	
55	82462,01574,42216	1 45773,26280	1 76776,25448	9,91625,39467,1434	10,16367,78746	33: 0
	9,87435,37341	54,52739	44,96170	5,20073,8880	16,24810	
54	82452,14139,04875	1 45718,73541	1 76731,29278	9,91620,19393,2554	10,16351,53936	32:24
	9,87686,53700	54,49967	44,93345	5,20268,4845	16,24590	
53	82442,26452,51175	1 45664,23574	1 76686,35933	9,91614,99124,7709	10,16335,29346	31:48
	9,87937,67049	54,47196	44,90523	5,20463,1278	16,24373	
52	82432,38514,84126	1 45609,76378	1 76641,45410	9,91609,78661,6431	10,16319,04973	31:12
	9,88188,77390	54,44429	44,87703	5,20657,8176	16,24154	
51	82422,50326,06736	1 45555,31949	1 76596,57707	9,91604,58003,8255	10,16302,80819	30:36
	9,88439,84720	54,41662	44,84886	5,20852,5541	16,23937	
50	82412,61886,22016	1 45500,90287	1 76551,72821	9,91599,37151,2714	10,16286,56882	30: 0
	9,88690,89040	54,38900	44,82070	5,21047,3374	16,23719	
49	82402,73195,32976	1 45446,51387	1 76506,90751	9,91594,16103,9340	10,16270,33163	29:24
	9,88941,90347	54,36139	44,79259	5,21242,1674	16,23501	
48	82392,84253,42629	1 45392,15248	1 76462,11492	9,91588,94861,7666	10,16254,09662	28:48
	9,89192,88642	54,33381	44,76448	5,21437,0442	16,23285	
47	82382,95060,53987	1 45337,81867	1 76417,35044	9,91583,73424,7224	10,16237,86377	28:12
	9,89443,83923	54,30625	44,73640	5,21631,9677	16,23067	
46	82373,05616,70064	1 45283,51242	1 76372,61404	9,91578,51792,7547	10,16221,63310	27:36
	9,89694,76192	54,27871	44,70835	5,21826,9382	16,22852	
45	82363,15921,93872	1 45229,23371	1 76327,90569	9,91573,29965,8165	10,16205,40458	27: 0
	9,89945,65445	54,25121	44,68033	5,22021,9554	16,22634	
44	82353,25976,28427	1 45174,98250	1 76283,22536	9,91568,07943,8611	10,16189,17824	26:24
	9,90196,51682	54,22372	44,65232	5,22217,0195	16,22419	
43	82343,35779,76745	1 45120,75878	1 76238,57304	9,91562,85726,8416	10,16172,95405	25:48
	9,90447,34903	54,19626	44,62433	5,22412,1307	16,22203	
42	82333,45332,41842	1 45066,56252	1 76193,94871	9,91557,63314,7109	10,16156,73202	25:12
	9,90698,15107	54,16882	44,59638	5,22607,2886	16,21988	
41	82323,54634,26735	1 45012,39370	1 76149,35233	9,91552,40707,4223	10,16140,51214	24:36
	9,90948,92293	54,14142	44,56845	5,22802,4936	16,21772	
40	82313,63685,34442	1 44958,25228	1 76104,78388	9,91547,17904,9287	10,16124,29442	24: 0
	9,91199,66461	54,11402	44,54054	5,22997,7457	16,21557	
39	82303,72485,67981	1 44904,13826	1 76060,24334	9,91541,94907,1830	10,16108,07885	23:24
	9,91450,37609	54,08666	44,51265	5,23193,0446	16,21342	
38	82293,81035,30372	1 44850,05160	1 76015,73069	9,91536,71714,1384	10,16091,86543	22:48
	9,91701,05738	54,05931	44,48479	5,23388,3907	16,21128	
37	82283,89334,24634	1 44795,99229	1 75971,24590	9,91531,48325,7477	10,16075,65415	22:12
	9,91951,70844	54,03200	44,45696	5,23583,7839	16,20914	
36	82273,97382,53790	1 44741,96029	1 75926,78894	9,91526,24741,9638	10,16059,44501	21:36
	9,92202,32930	54,00471	44,42914	5,23779,2242	16,20699	
35	82264,05180,20860	1 44687,95558	1 75882,35980	9,91521,00962,7396	10,16043,23802	21: 0
	9,92452,91993	53,97744	44,40135	5,23974,7117	16,20486	
34	82254,12727,28867	1 44633,97814	1 75837,95845	9,91515,76988,0279	10,16027,03316	20:24
	9,92703,48034	53,95020	44,37358	5,24170,2462	16,20273	

GRAD. 55.

34. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	56884,89718,01660	69165,84636	1 21589,12083	9,75499,69774,3289	9,83989,16957	40:12
	14,35345,43688	25,80592	14,68152	10,95693,2370	16,20059	
68	56899,25063,45348	69191,65228	1 21603,80235	9,75510,65467,5659	9,84005,37016	40:48
	14,35172,11185	25,81214	14,68877	10,95284,6110	16,19846	
69	56913,60235,56533	69217,46442	1 21618,49112	9,75521,60752,1769	9,84021,56862	41:24
	14,34998,74311	25,81839	14,69602	10,94876,1911	16,19633	
70	56927,95234,30844	69243,28281	1 21633,18714	9,75532,55628,3680	9,84037,76495	42: 0
	14,34825,33065	25,82462	14,70328	10,94467,9770	16,19421	
71	56942,30059,63909	69269,10743	1 21647,89042	9,75543,50096,3450	9,84053,95916	42:36
	14,34651,87448	25,83088	14,71055	10,94059,9687	16,19208	
72	56956,64711,51357	69294,93831	1 21662,60097	9,75554,44156,3137	9,84070,15124	43:12
	14,34478,37462	25,83712	14,71781	10,93652,1659	16,18997	
73	56970,99189,88819	69320,77543	1 21677,31878	9,75565,37808,4796	9,84086,34121	43:48
	14,34304,83105	25,84337	14,72508	10,93244,5683	16,18785	
74	56985,33494,71924	69346,61880	1 21692,04386	9,75576,31053,0479	9,84102,52906	44:24
	14,34131,24379	25,84963	14,73235	10,92837,1761	16,18573	
75	56999,67625,96303	69372,46843	1 21706,77621	9,75587,23890,2240	9,84118,71479	45: 0
	14,33957,61285	25,85589	14,73963	10,92429,9886	16,18363	
76	57014,01583,57588	69398,32432	1 21721,51584	9,75598,16320,2126	9,84134,89842	45:36
	14,33783,93823	25,86215	14,74690	10,92023,0062	16,18151	
77	57028,35367,51411	69424,18647	1 21736,26274	9,75609,08343,2188	9,84151,07993	46:12
	14,33610,21992	25,86842	14,75419	10,91616,2282	16,17940	
78	57042,68977,73403	69450,05489	1 21751,01693	9,75619,99959,4470	9,84167,25933	46:48
	14,33436,45796	25,87469	14,76148	10,91209,6546	16,17730	
79	57057,02414,19199	69475,92958	1 21765,77841	9,75630,91169,1016	9,84183,43663	47:24
	14,33262,65233	25,88097	14,76876	10,90803,2855	16,17520	
80	57071,35676,84432	69501,81055	1 21780,54717	9,75641,81972,3871	9,84199,61183	48: 0
	14,33088,80303	25,88725	14,77606	10,90397,1203	16,17310	
81	57085,68765,64735	69527,69780	1 21795,32323	9,75652,72369,5074	9,84215,78493	48:36
	14,32914,91008	25,89353	14,78336	10,89991,1590	16,17100	
82	57100,01680,55743	69553,59133	1 21810,10659	9,75663,62360,6664	9,84231,95593	49:12
	14,32740,97348	25,89982	14,79066	10,89585,4015	16,16891	
83	57114,34421,53091	69579,49115	1 21824,89725	9,75674,51946,0679	9,84248,12484	49:48
	14,32566,99325	25,90611	14,79796	10,89179,8475	16,16681	
84	57128,66988,52416	69605,39726	1 21839,69521	9,75685,41125,9154	9,84264,29165	50:24
	14,32392,96936	25,91241	14,80527	10,88774,4969	16,16472	
85	57142,99381,49352	69631,30967	1 21854,50048	9,75696,29900,4123	9,84280,45637	51: 0
	14,32218,90185	25,91871	14,81258	10,88369,3494	16,16264	
86	57157,31600,39537	69657,22838	1 21869,31306	9,75707,18269,7617	9,84296,61901	51:36
	14,32044,79071	25,92500	14,81989	10,87964,4051	16,16055	
87	57171,63645,18608	69683,15338	1 21884,13295	9,75718,06234,1668	9,84312,77956	52:12
	14,31870,63594	25,93132	14,82722	10,87559,6635	16,15848	
88	57185,95515,82202	69709,08470	1 21898,96017	9,75728,93793,8303	9,84328,93804	52:48
	14,31696,43757	25,93762	14,83453	10,87155,1245	16,15639	
89	57200,27212,25959	69735,02232	1 21913,79470	9,75739,80948,9548	9,84345,09443	53:24
	14,31522,19557	25,94394	14,84186	10,86750,7882	16,15431	
90	57214,58734,45516	69760,96626	1 21928,63656	9,75750,67699,7430	9,84361,24874	54: 0
	14,31347,90998	25,95026	14,84919	10,86346,6540	16,15224	
91	57228,90082,36514	69786,91652	1 21943,48575	9,75761,54046,3970	9,84377,40098	54:36
	14,31173,58077	25,95658	14,85653	10,85942,7220	16,15017	
92	57243,21255,94591	69812,87310	1 21958,34228	9,75772,39989,1190	9,84393,55115	55:12
	14,30999,20798	25,96291	14,86386	10,85538,9920	16,14810	
93	57257,52255,15389	69838,83601	1 21973,20614	9,75783,25528,1110	9,84409,69925	55:48
	14,30824,79158	25,96924	14,87120	10,85135,4637	16,14603	
94	57271,83079,94547	69864,80525	1 21988,07734	9,75794,10663,5747	9,84425,84528	56:24
	14,30650,33162	25,97557	14,87854	10,84732,1371	16,14396	
95	57286,13730,27709	69890,78082	1 22002,95588	9,75804,95395,7118	9,84441,98924	57: 0
	14,30475,82806	25,98191	14,88589	10,84329,0118	16,14191	
96	57300,44206,10515	69916,76273	1 22017,84177	9,75815,79724,7236	9,84458,13115	57:36
	14,30301,28094	25,98825	14,89324	10,83926,0878	16,13984	
97	57314,74507,38609	69942,75098	1 22032,73501	9,75826,63650,8114	9,84474,27099	58:12
	14,30126,69024	25,99460	14,90060	10,83523,3650	16,13779	
98	57329,04634,07633	69968,74558	1 22047,63561	9,75837,47174,1764	9,84490,40878	58:48
	14,29952,05597	26,00094	14,90795	10,83120,8429	16,13573	
99	57343,34586,13230	69994,74652	1 22062,54356	9,75848,30295,0193	9,84506,54451	59:24
	14,29777,37816	26,00730	14,91532	10,82718,5217	16,13368	
100	57357,64363,51046	70020,75382	1 22077,45888	9,75859,13013,5410	9,84522,67819	60: 0
	14,29602,65678	26,01366	14,92268	10,82316,4009	16,13163	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	82244,20023,80833	1 44580,02794	1 75793,58487	9,91510,52817,7817	10,16010,83043	19:48
	9,92954,01049	53,92297	44,34585	5,24365,8281	16,20059	
32	82234,27069,79784	1 44526,10497	1 75749,23902	9,91505,28451,9536	10,15994,62984	19:12
	9,93204,51040	53,89578	44,31812	5,24561,4571	16,19846	
31	82224,33865,28744	1 44472,20919	1 75704,92090	9,91500,03890,4965	10,15978,43138	18:36
	9,93454,98007	53,86860	44,29043	5,24757,1335	16,19633	
30	82214,40410,30737	1 44418,34059	1 75660,63047	9,91494,79133,3630	10,15962,23505	18: 0
	9,93705,41945	53,84146	44,26276	5,24952,8570	16,19421	
29	82204,46704,88792	1 44364,49913	1 75616,36771	9,91489,54180,5060	10,15946,04084	17:24
	9,93955,82859	53,81433	44,23511	5,25148,6281	16,19208	
28	82194,52749,05933	1 44310,68480	1 75572,13260	9,91484,29031,8779	10,15929,84876	16:48
	9,94206,20743	53,78723	44,20748	5,25344,4462	16,18997	
27	82184,58542,85190	1 44256,89757	1 75527,92512	9,91479,03687,4317	10,15913,65879	16:12
	9,94456,55600	53,76015	44,17989	5,25540,3120	16,18785	
26	82174,64086,29590	1 44203,13742	1 75483,74523	9,91473,78147,1197	10,15897,47094	15:36
	9,94706,87426	53,73310	44,15230	5,25736,2250	16,18573	
25	82164,69379,42164	1 44149,40432	1 75439,59293	9,91468,52410,8947	10,15881,28521	15: 0
	9,94957,16224	53,70606	44,12476	5,25932,1856	16,18363	
24	82154,74422,25940	1 44095,69826	1 75395,46817	9,91463,26478,7091	10,15865,10158	14:24
	9,95207,41990	53,67906	44,09722	5,26128,1935	16,18151	
23	82144,79214,83950	1 44042,01920	1 75351,37095	9,91458,00350,5156	10,15848,92007	13:48
	9,95457,64724	53,65208	44,06972	5,26324,2490	16,17940	
22	82134,83757,19226	1 43988,36712	1 75307,30123	9,91452,74026,2666	10,15832,74067	13:12
	9,95707,84426	53,62512	44,04223	5,26520,3520	16,17730	
21	82124,88049,34800	1 43934,74200	1 75263,25900	9,91447,47505,9146	10,15816,56337	12:36
	9,95958,01096	53,59818	44,01477	5,26716,5026	16,17520	
20	82114,92091,33704	1 43881,14382	1 75219,24423	9,91442,20789,4120	10,15800,38817	12: 0
	9,96208,14731	53,57127	43,98734	5,26912,7007	16,17310	
19	82104,95883,18973	1 43827,57255	1 75175,25689	9,91436,93876,7113	10,15784,21507	11:24
	9,96458,25331	53,54438	43,95992	5,27108,9464	16,17100	
18	82094,99424,93642	1 43774,02817	1 75131,29697	9,91431,66767,7649	10,15768,04407	10:48
	9,96708,32897	53,51751	43,93254	5,27305,2399	16,16891	
17	82085,02716,60745	1 43720,51066	1 75087,36443	9,91426,39462,5250	10,15751,87516	10:12
	9,96958,37426	53,49067	43,90516	5,27501,5809	16,16681	
16	82075,05758,23319	1 43667,01999	1 75043,45927	9,91421,11960,9441	10,15735,70835	9:36
	9,97208,38918	53,46386	43,87783	5,27697,9698	16,16472	
15	82065,08549,84401	1 43613,55613	1 74999,58144	9,91415,84262,9743	10,15719,54363	9: 0
	9,97458,37373	53,43706	43,85050	5,27894,4062	16,16264	
14	82055,11091,47028	1 43560,11907	1 74955,73094	9,91410,56368,5681	10,15703,38099	8:24
	9,97708,32789	53,41028	43,82321	5,28090,8905	16,16055	
13	82045,13383,14239	1 43506,70879	1 74911,90773	9,91405,28277,6776	10,15687,22044	7:48
	9,97958,25165	53,38354	43,79593	5,28287,4225	16,15848	
12	82035,15424,89074	1 43453,32525	1 74868,11180	9,91399,99990,2551	10,15671,06196	7:12
	9,98208,14503	53,35682	43,76868	5,28484,0024	16,15639	
11	82025,17216,74571	1 43399,96843	1 74824,34312	9,91394,71506,2527	10,15654,90557	6:36
	9,98458,00799	53,33011	43,74146	5,28680,6302	16,15431	
10	82015,18758,73772	1 43346,63832	1 74780,60166	9,91389,42825,6225	10,15638,75126	6: 0
	9,98707,84054	53,30343	43,71425	5,28877,3057	16,15224	
9	82005,20050,89718	1 43293,33489	1 74736,88741	9,91384,13948,3168	10,15622,59902	5:24
	9,98957,64266	53,27678	43,68707	5,29074,0293	16,15017	
8	81995,21093,25452	1 43240,05811	1 74693,20034	9,91378,84874,2875	10,15606,44885	4:48
	9,99207,41435	53,25015	43,65991	5,29270,8007	16,14810	
7	81985,21885,84017	1 43186,80796	1 74649,54043	9,91373,55603,4868	10,15590,30075	4:12
	9,99457,15562	53,22354	43,63277	5,29467,6201	16,14603	
6	81975,22428,68455	1 43133,58442	1 74605,90766	9,91368,26135,8667	10,15574,15472	3:36
	9,99706,86643	53,19695	43,60566	5,29664,4875	16,14396	
5	81965,22721,81812	1 43080,38747	1 74562,30200	9,91362,96471,3792	10,15558,01076	3: 0
	9,99956,54678	53,17039	43,57858	5,29861,4029	16,14191	
4	81955,22765,27134	1 43027,21708	1 74518,72342	9,91357,66609,9763	10,15541,86885	2:24
	10,00206,19669	53,14385	43,55151	5,30058,3665	16,13984	
3	81945,22559,07465	1 42974,07323	1 74475,17191	9,91352,36551,6098	10,15525,72901	1:48
	10,00455,81611	53,11734	43,52446	5,30255,3780	16,13779	
2	81935,22103,25854	1 42920,95589	1 74431,64745	9,91347,06296,2318	10,15509,59122	1:12
	10,00705,40508	53,09084	43,49744	5,30452,4377	16,13573	
1	81925,21397,85346	1 42867,86505	1 74388,15001	9,91341,75843,7941	10,15493,45549	0:36
	10,00954,96354	53,06438	43,47045	5,30649,5455	16,13368	
0	81915,20442,88992	1 42814,80067	1 74344,67956	9,91336,45194,2486	10,15477,32181	0: 0
	10,01204,49153	53,03792	43,44347	5,30846,7016	16,13163	

GRAD. 55.

35. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
0	57357,64363,51046	70020,75382	1 22077,45888	9,75859,13013,5410	9,84522,67819	0: 0
	14,29602,65678	26,01366	14,92268	10,82316,4009	16,13163	
1	57371,93966,16724	70046,76748	1 22092,38156	9,75869,95329,9419	9,84538,80982	0:36
	14,29427,89187	26,02002	14,93005	10,81914,4806	16,12959	
2	57386,23394,05911	70072,78750	1 22107,31161	9,75880,77244,4225	9,84554,93941	1:12
	14,29253,08339	26,02638	14,93742	10,81512,7604	16,12754	
3	57400,52647,14250	70098,81388	1 22122,24903	9,75891,58757,1829	9,84571,06695	1:48
	14,29078,23140	26,03275	14,94479	10,81111,2403	16,12549	
4	57414,81725,37390	70124,84663	1 22137,19382	9,75902,39868,4232	9,84587,19244	2:24
	14,28903,33586	26,03913	14,95218	10,80709,9201	16,12346	
5	57429,10628,70976	70150,88576	1 22152,14600	9,75913,20578,3433	9,84603,31590	3: 0
	14,28728,39680	26,04550	14,95956	10,80308,7994	16,12142	
6	57443,39357,10656	70176,93126	1 22167,10556	9,75924,00887,1427	9,84619,43732	3:36
	14,28553,41421	26,05189	14,96695	10,79907,8784	16,11939	
7	57457,67910,52077	70202,98315	1 22182,07251	9,75934,80795,0211	9,84635,55671	4:12
	14,28378,38812	26,05827	14,97434	10,79507,1567	16,11735	
8	57471,96288,90889	70229,04142	1 22197,04685	9,75945,60302,1778	9,84651,67406	4:48
	14,28203,31850	26,06465	14,98173	10,79106,6341	16,11532	
9	57486,24492,22739	70255,10607	1 22212,02858	9,75956,39408,8119	9,84667,78938	5:24
	14,28028,20540	26,07105	14,98913	10,78706,3105	16,11330	
10	57500,52520,43279	70281,17712	1 22227,01771	9,75967,18115,1224	9,84683,90268	6: 0
	14,27853,04877	26,07745	14,99653	10,78306,1857	16,11127	
11	57514,80373,48156	70307,25457	1 22242,01424	9,75977,96421,3081	9,84700,01395	6:36
	14,27677,84867	26,08385	15,00394	10,77906,2596	16,10925	
12	57529,08051,33023	70333,33842	1 22257,01818	9,75988,74327,5677	9,84716,12320	7:12
	14,27502,60506	26,09025	15,01134	10,77506,5319	16,10723	
13	57543,35553,93529	70359,42867	1 22272,02952	9,75999,51834,0996	9,84732,23043	7:48
	14,27327,31798	26,09666	15,01876	10,77107,0026	16,10521	
14	57557,62881,25327	70385,52533	1 22287,04828	9,76010,28941,1022	9,84748,33564	8:24
	14,27151,98742	26,10308	15,02617	10,76707,6713	16,10319	
15	57571,90033,24069	70411,62841	1 22302,07445	9,76021,05648,7735	9,84764,43883	9: 0
	14,26976,61338	26,10949	15,03359	10,76308,5381	16,10119	
16	57586,17009,85407	70437,73790	1 22317,10804	9,76031,81957,3116	9,84780,54002	9:36
	14,26801,19587	26,11591	15,04102	10,75909,6026	16,09917	
17	57600,43811,04994	70463,85381	1 22332,14906	9,76042,57866,9142	9,84796,63919	10:12
	14,26625,73491	26,12233	15,04844	10,75510,8647	16,09717	
18	57614,70436,78485	70489,97614	1 22347,19750	9,76053,33377,7789	9,84812,73636	10:48
	14,26450,23048	26,12877	15,05588	10,75112,3243	16,09516	
19	57628,96887,01533	70516,10491	1 22362,25338	9,76064,08490,1032	9,84828,83152	11:24
	14,26274,68260	26,13519	15,06330	10,74713,9811	16,09316	
20	57643,23161,69793	70542,24010	1 22377,31668	9,76074,83204,0843	9,84844,92468	12: 0
	14,26099,09128	26,14163	15,07075	10,74315,8351	16,09116	
21	57657,49260,78921	70568,38173	1 22392,38743	9,76085,57519,9194	9,84861,01584	12:36
	14,25923,45652	26,14808	15,07819	10,73917,8859	16,08916	
22	57671,75184,24573	70594,52981	1 22407,46562	9,76096,31437,8053	9,84877,10500	13:12
	14,25747,77831	26,15451	15,08563	10,73520,1336	16,08716	
23	57686,00932,02404	70620,68432	1 22422,55125	9,76107,04957,9389	9,84893,19216	13:48
	14,25572,05668	26,16097	15,09308	10,73122,5778	16,08517	
24	57700,26504,08072	70646,84529	1 22437,64433	9,76117,78080,5167	9,84909,27733	14:24
	14,25396,29162	26,16742	15,10053	10,72725,2184	16,08319	
25	57714,51900,37234	70673,01271	1 22452,74486	9,76128,50805,7351	9,84925,36052	15: 0
	14,25220,48314	26,17387	15,10799	10,72328,0554	16,08119	
26	57728,77120,85548	70699,18658	1 22467,85285	9,76139,23133,7905	9,84941,44171	15:36
	14,25044,63125	26,18033	15,11546	10,71931,0883	16,07921	
27	57743,02165,48673	70725,36691	1 22482,96831	9,76149,95064,8788	9,84957,52092	16:12
	14,24868,73595	26,18680	15,12291	10,71534,3171	16,07722	
28	57757,27034,22268	70751,55371	1 22498,09122	9,76160,66599,1959	9,84973,59814	16:48
	14,24692,79724	26,19327	15,13038	10,71137,7419	16,07525	
29	57771,51727,01992	70777,74698	1 22513,22160	9,76171,37736,9378	9,84989,67339	17:24
	14,24516,81513	26,19973	15,13785	10,70741,3620	16,07327	
30	57785,76243,83505	70803,94671	1 22528,35945	9,76182,08478,2998	9,85005,74666	18: 0
	14,24340,78964	26,20622	15,14533	10,70345,1776	16,07129	
31	57800,00584,62469	70830,15293	1 22543,50478	9,76192,78823,4774	9,85021,81795	18:36
	14,24164,72075	26,21269	15,15280	10,69949,1884	16,06931	
32	57814,24749,34544	70856,36562	1 22558,65758	9,76203,48772,6658	9,85037,88726	19:12
	14,23988,60849	26,21918	15,16029	10,69553,3944	16,06735	
33	57828,48737,95393	70882,58480	1 22573,81787	9,76214,18326,0602	9,85053,95461	19:48
	14,23812,45284	26,22567	15,16778	10,69157,7952	16,06538	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
100	81915,20442,88992	1 42814,80067	1 74344,67956	9,91336,45194,2486	10,15477,32181	60: 0
	10,01204,49153	53,03792	43,44347	5,30846,7016	16,13163	
99	81905,19238,39839	1 42761,76275	1 74301,23609	9,91331,14347,5470	10,15461,19018	59:24
	10,01453,98901	53,01150	43,41652	5,31043,9057	16,12959	
98	81895,17784,40938	1 42708,75125	1 74257,81957	9,91325,83303,6413	10,15445,06059	58:48
	10,01703,45598	52,98510	43,38959	5,31241,1582	16,12754	
97	81885,16080,95340	1 42655,76615	1 74214,42998	9,91320,52062,4831	10,15428,93305	58:12
	10,01952,89245	52,95873	43,36268	5,31438,4589	16,12549	
96	81875,14128,06095	1 42602,80742	1 74171,06730	9,91315,20624,0242	10,15412,80756	57:36
	10,02202,29840	52,93236	43,33580	5,31635,8079	16,12346	
95	81865,11925,76255	1 42549,87506	1 74127,73150	9,91309,88988,2163	10,15396,68410	57: 0
	10,02451,67380	52,90604	43,30893	5,31833,2052	16,12142	
94	81855,09474,08875	1 42496,96902	1 74084,42257	9,91304,57155,0111	10,15380,56268	56:24
	10,02701,01868	52,87973	43,28210	5,32030,6509	16,11939	
93	81845,06773,07007	1 42444,08929	1 74041,14047	9,91299,25124,3602	10,15364,44329	55:48
	10,02950,33302	52,85344	43,25529	5,32228,1450	16,11735	
92	81835,03822,73705	1 42391,23585	1 73997,88518	9,91293,92896,2152	10,15348,32594	55:12
	10,03199,61680	52,82717	43,22849	5,32425,6874	16,11532	
91	81825,00623,12025	1 42338,40868	1 73954,65669	9,91288,60470,5278	10,15332,21062	54:36
	10,03448,87002	52,80094	43,20172	5,32623,2783	16,11330	
90	81814,97174,25023	1 42285,60774	1 73911,45497	9,91283,27847,2495	10,15316,09732	54: 0
	10,03698,09267	52,77471	43,17497	5,32820,9177	16,11127	
89	81804,93476,15756	1 42232,83303	1 73868,28000	9,91277,95026,3318	10,15299,98605	53:24
	10,03947,28475	52,74853	43,14824	5,33018,6056	16,10925	
88	81794,89528,87281	1 42180,08450	1 73825,13176	9,91272,62007,7262	10,15283,87680	52:48
	10,04196,44626	52,72234	43,12155	5,33216,3420	16,10723	
87	81784,85332,42655	1 42127,36216	1 73782,01021	9,91267,28791,3842	10,15267,76957	52:12
	10,04445,57716	52,69620	43,09486	5,33414,1270	16,10521	
86	81774,80886,84939	1 42074,66596	1 73738,91535	9,91261,95377,2572	10,15251,66436	51:36
	10,04694,67748	52,67007	43,06820	5,33611,9605	16,10319	
85	81764,76192,17191	1 42021,99589	1 73695,84715	9,91256,61765,2967	10,15235,56117	51: 0
	10,04943,74718	52,64397	43,04157	5,33809,8428	16,10119	
84	81754,71248,42473	1 41969,35192	1 73652,80558	9,91251,27955,4539	10,15219,45998	50:24
	10,05192,78628	52,61788	43,01496	5,34007,7735	16,09917	
83	81744,66055,63845	1 41916,73404	1 73609,79062	9,91245,93947,6804	10,15203,36081	49:48
	10,05441,79475	52,59183	42,98836	5,34205,7531	16,09717	
82	81734,60613,84370	1 41864,14221	1 73566,80226	9,91240,59741,9273	10,15187,26364	49:12
	10,05690,77260	52,56579	42,96180	5,34403,7813	16,09516	
81	81724,54923,07110	1 41811,57642	1 73523,84046	9,91235,25338,1460	10,15171,16848	48:36
	10,05939,71981	52,53977	42,93525	5,34601,8583	16,09316	
80	81714,48983,35129	1 41759,03665	1 73480,90521	9,91229,90736,2877	10,15155,07532	48: 0
	10,06188,63639	52,51378	42,90873	5,34799,9840	16,09116	
79	81704,42794,71490	1 41706,52287	1 73437,99648	9,91224,55936,3037	10,15138,98416	47:24
	10,06437,52230	52,48781	42,88223	5,34998,1586	16,08916	
78	81694,36357,19260	1 41654,03506	1 73395,11425	9,91219,20938,1451	10,15122,89500	46:48
	10,06686,37757	52,46187	42,85574	5,35196,3819	16,08716	
77	81684,29670,81503	1 41601,57319	1 73352,25851	9,91213,85741,7632	10,15106,80784	46:12
	10,06935,20216	52,43594	42,82929	5,35394,6542	16,08517	
76	81674,22735,61287	1 41549,13725	1 73309,42922	9,91208,50347,1090	10,15090,72267	45:36
	10,07183,99608	52,41004	42,80286	5,35592,9753	16,08319	
75	81664,15551,61679	1 41496,72721	1 73266,62636	9,91203,14754,1337	10,15074,63948	45: 0
	10,07432,75933	52,38416	42,77644	5,35791,3453	16,08119	
74	81654,08118,85746	1 41444,34305	1 73223,84992	9,91197,78962,7884	10,15058,55829	44:24
	10,07681,49188	52,35830	42,75005	5,35989,7644	16,07921	
73	81644,00437,36558	1 41391,98475	1 73181,09987	9,91192,42973,0240	10,15042,47908	43:48
	10,07930,19374	52,33246	42,72368	5,36188,2323	16,07722	
72	81633,92507,17184	1 41339,65229	1 73138,37619	9,91187,06784,7917	10,15026,40186	43:12
	10,08178,86490	52,30666	42,69734	5,36386,7493	16,07525	
71	81623,84328,30694	1 41287,34563	1 73095,67885	9,91181,70398,0424	10,15010,32661	42:36
	10,08427,50534	52,28086	42,67101	5,36585,3154	16,07327	
70	81613,75900,80160	1 41235,06477	1 73053,00784	9,91176,33812,7270	10,14994,25334	42: 0
	10,08676,11506	52,25509	42,64472	5,36783,9305	16,07129	
69	81603,67224,68654	1 41182,80968	1 73010,36312	9,91170,97028,7965	10,14978,18205	41:24
	10,08924,69407	52,22935	42,61843	5,36982,5947	16,06931	
68	81593,58299,99247	1 41130,58033	1 72967,74469	9,91165,60046,2018	10,14962,11274	40:48
	10,09173,24234	52,20363	42,59217	5,37181,3080	16,06735	
67	81583,49126,75013	1 41078,37670	1 72925,15252	9,91160,22864,8938	10,14946,04539	40:12
	10,09421,75986	52,17792	42,56594	5,37380,0706	16,06538	

GRAD. 54.

35. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	57828,48737,95393	70882,58480	1 22573,81787	9,76214,18326,0602	9,85053,95461	19:48
	14,23812,45284	26,22567	15,16778	10,69157,7952	16,06538	
34	57842,72550,40677	70908,81047	1 22588,98565	9,76224,87483,8554	9,85070,01999	20:24
	14,23636,25382	26,23215	15,17526	10,68762,3907	16,06341	
35	57856,96186,66059	70935,04262	1 22604,16091	9,76235,56246,2461	9,85086,08340	21: 0
	14,23460,01143	26,23866	15,18275	10,68367,1808	16,06145	
36	57871,19646,67202	70961,28128	1 22619,34366	9,76246,24613,4269	9,85102,14485	21:36
	14,23283,72569	26,24515	15,19026	10,67972,1653	16,05949	
37	57885,42930,39771	70987,52643	1 22634,53392	9,76256,92585,5922	9,85118,20434	22:12
	14,23107,39659	26,25166	15,19775	10,67577,3440	16,05753	
38	57899,66037,79430	71013,77809	1 22649,73167	9,76267,60162,9362	9,85134,26187	22:48
	14,22931,02414	26,25817	15,20526	10,67182,7168	16,05557	
39	57913,88968,81844	71040,03626	1 22664,93693	9,76278,27345,6530	9,85150,31744	23:24
	14,22754,60835	26,26468	15,21276	10,66788,2835	16,05362	
40	57928,11723,42679	71066,30094	1 22680,14969	9,76288,94133,9365	9,85166,37106	24: 0
	14,22578,14921	26,27119	15,22028	10,66394,0440	16,05167	
41	57942,34301,57600	71092,57213	1 22695,36997	9,76299,60527,9805	9,85182,42273	24:36
	14,22401,64673	26,27772	15,22780	10,65999,9978	16,04972	
42	57956,56703,22273	71118,84985	1 22710,59777	9,76310,26527,9783	9,85198,47245	25:12
	14,22225,10094	26,28424	15,23531	10,65606,1453	16,04777	
43	57970,78928,32367	71145,13409	1 22725,83308	9,76320,92134,1236	9,85214,52022	25:48
	14,22048,51182	26,29077	15,24283	10,65212,4858	16,04583	
44	57985,00976,83549	71171,42486	1 22741,07591	9,76331,57346,6094	9,85230,56605	26:24
	14,21871,87938	26,29730	15,25037	10,64819,0195	16,04389	
45	57999,22848,71487	71197,72216	1 22756,32628	9,76342,22165,6289	9,85246,60994	27: 0
	14,21695,20362	26,30384	15,25789	10,64425,7461	16,04195	
46	58013,44543,91849	71224,02600	1 22771,58417	9,76352,86591,3750	9,85262,65189	27:36
	14,21518,48457	26,31037	15,26542	10,64032,6653	16,04001	
47	58027,66062,40306	71250,33637	1 22786,84959	9,76363,50624,0403	9,85278,69190	28:12
	14,21341,72220	26,31693	15,27297	10,63639,7772	16,03808	
48	58041,87404,12526	71276,65330	1 22802,12256	9,76374,14263,8175	9,85294,72998	28:48
	14,21164,91654	26,32347	15,28051	10,63247,0814	16,03614	
49	58056,08569,04180	71302,97677	1 22817,40307	9,76384,77510,8989	9,85310,76612	29:24
	14,20988,06760	26,33002	15,28805	10,62854,5779	16,03422	
50	58070,29557,10940	71329,30679	1 22832,69112	9,76395,40365,4768	9,85326,80034	30: 0
	14,20811,17536	26,33658	15,29560	10,62462,2664	16,03229	
51	58084,50368,28476	71355,64337	1 22847,98672	9,76406,02827,7432	9,85342,83263	30:36
	14,20634,23984	26,34314	15,30315	10,62070,1469	16,03036	
52	58098,71002,52460	71381,98651	1 22863,28987	9,76416,64897,8901	9,85358,86299	31:12
	14,20457,26105	26,34971	15,31071	10,61678,2191	16,02844	
53	58112,91459,78565	71408,33622	1 22878,60058	9,76427,26576,1092	9,85374,89143	31:48
	14,20280,23899	26,35627	15,31827	10,61286,4828	16,02652	
54	58127,11740,02464	71434,69249	1 22893,91885	9,76437,87862,5920	9,85390,91795	32:24
	14,20103,17367	26,36285	15,32584	10,60894,9380	16,02461	
55	58141,31843,19831	71461,05534	1 22909,24469	9,76448,48757,5300	9,85406,94256	33: 0
	14,19926,06508	26,36942	15,33340	10,60503,5844	16,02269	
56	58155,51769,26339	71487,42476	1 22924,57809	9,76459,09261,1144	9,85422,96525	33:36
	14,19748,91324	26,37601	15,34098	10,60112,4220	16,02077	
57	58169,71518,17663	71513,80077	1 22939,91907	9,76469,69373,5364	9,85438,98602	34:12
	14,19571,71816	26,38259	15,34855	10,59721,4503	16,01887	
58	58183,91089,89479	71540,18336	1 22955,26762	9,76480,29094,9867	9,85455,00489	34:48
	14,19394,47984	26,38917	15,35613	10,59330,6695	16,01696	
59	58198,10484,37463	71566,57253	1 22970,62375	9,76490,88425,6562	9,85471,02185	35:24
	14,19217,19826	26,39578	15,36371	10,58940,0794	16,01505	
60	58212,29701,57289	71592,96831	1 22985,98746	9,76501,47365,7356	9,85487,03690	36: 0
	14,19039,87348	26,40237	15,37130	10,58549,6795	16,01315	
61	58226,48741,44637	71619,37068	1 23001,35876	9,76512,05915,4151	9,85503,05005	36:36
	14,18862,50544	26,40897	15,37889	10,58159,4699	16,01125	
62	58240,67603,95181	71645,77965	1 23016,73765	9,76522,64074,8850	9,85519,06130	37:12
	14,18685,09421	26,41557	15,38648	10,57769,4505	16,00935	
63	58254,86289,04602	71672,19522	1 23032,12413	9,76533,21844,3355	9,85535,07065	37:48
	14,18507,63974	26,42219	15,39408	10,57379,6211	16,00746	
64	58269,04796,68576	71698,61741	1 23047,51821	9,76543,79223,9566	9,85551,07811	38:24
	14,18330,14207	26,42880	15,40169	10,56989,9813	16,00556	
65	58283,23126,82783	71725,04621	1 23062,91990	9,76554,36213,9379	9,85567,08367	39: 0
	14,18152,60120	26,43542	15,40929	10,56600,5312	16,00367	
66	58297,41279,42903	71751,48163	1 23078,32919	9,76564,92814,4691	9,85583,08734	39:36
	14,17975,01713	26,44204	15,41690	10,56211,2706	16,00179	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	81583,49126,75013	1 41078,37670	1 72925,15252	9,91160,22864,8938	10,14946,04539	40:12
	10,09421,75986	52,17792	42,56594	5,37380,0706	16,06538	
66	81573,39704,99027	1 41026,19878	1 72882,58658	9,91154,85484,8232	10,14929,98001	39:36
	10,09670,24663	52,15224	42,53972	5,37578,8822	16,06341	
65	81563,30034,74364	1 40974,04654	1 72840,04686	9,91149,47905,9410	10,14913,91660	39: 0
	10,09918,70266	52,12659	42,51354	5,37777,7432	16,06145	
64	81553,20116,04098	1 40921,91995	1 72797,53332	9,91144,10128,1978	10,14897,85515	38:24
	10,10167,12791	52,10095	42,48736	5,37976,6534	16,05949	
63	81543,09948,91307	1 40869,81900	1 72755,04596	9,91138,72151,5444	10,14881,79566	37:48
	10,10415,52240	52,07534	42,46121	5,38175,6129	16,05753	
62	81532,99533,39067	1 40817,74366	1 72712,58475	9,91133,33975,9315	10,14865,73813	37:12
	10,10663,88610	52,04974	42,43509	5,38374,6216	16,05557	
61	81522,88869,50457	1 40765,69392	1 72670,14966	9,91127,95601,3099	10,14849,68256	36:36
	10,10912,21903	52,02418	42,40898	5,38573,6798	16,05362	
60	81512,77957,28554	1 40713,66974	1 72627,74068	9,91122,57027,6301	10,14833,62894	36: 0
	10,11160,52115	51,99863	42,38290	5,38772,7873	16,05167	
59	81502,66796,76439	1 40661,67111	1 72585,35778	9,91117,18254,8428	10,14817,57727	35:24
	10,11408,79247	51,97310	42,35684	5,38971,9442	16,04972	
58	81492,55387,97192	1 40609,69801	1 72543,00094	9,91111,79282,8986	10,14801,52755	34:48
	10,11657,03299	51,94760	42,33080	5,39171,1506	16,04777	
57	81482,43730,93893	1 40557,75041	1 72500,67014	9,91106,40111,7480	10,14785,47978	34:12
	10,11905,24268	51,92212	42,30478	5,39370,4064	16,04583	
56	81472,31825,69625	1 40505,82829	1 72458,36536	9,91101,00741,3416	10,14769,43395	33:36
	10,12153,42156	51,89666	42,27879	5,39569,7117	16,04389	
55	81462,19672,27469	1 40453,93163	1 72416,08657	9,91095,61171,6299	10,14753,39006	33: 0
	10,12401,56960	51,87123	42,25281	5,39769,0666	16,04195	
54	81452,07270,70509	1 40402,06040	1 72373,83376	9,91090,21402,5633	10,14737,34811	32:24
	10,12649,68680	51,84581	42,22686	5,39968,4710	16,04001	
53	81441,94621,01829	1 40350,21459	1 72331,60690	9,91084,81434,0923	10,14721,30810	31:48
	10,12897,77315	51,82041	42,20093	5,40167,9250	16,03808	
52	81431,81723,24514	1 40298,39418	1 72289,40597	9,91079,41266,1673	10,14705,27002	31:12
	10,13145,82866	51,79504	42,17502	5,40367,4286	16,03614	
51	81421,68577,41648	1 40246,59914	1 72247,23095	9,91074,00898,7387	10,14689,23388	30:36
	10,13393,85329	51,76969	42,14913	5,40566,9819	16,03422	
50	81411,55183,56319	1 40194,82945	1 72205,08182	9,91068,60331,7568	10,14673,19966	30: 0
	10,13641,84706	51,74437	42,12327	5,40766,5849	16,03229	
49	81401,41541,71613	1 40143,08508	1 72162,95855	9,91063,19565,1719	10,14657,16737	29:24
	10,13889,80995	51,71905	42,09742	5,40966,2375	16,03036	
48	81391,27651,90618	1 40091,36603	1 72120,86113	9,91057,78598,9344	10,14641,13701	28:48
	10,14137,74196	51,69377	42,07160	5,41165,9400	16,02844	
47	81381,13514,16422	1 40039,67226	1 72078,78953	9,91052,37432,9944	10,14625,10857	28:12
	10,14385,64307	51,66851	42,04580	5,41365,6922	16,02652	
46	81370,99128,52115	1 39988,00375	1 72036,74373	9,91046,96067,3022	10,14609,08205	27:36
	10,14633,51328	51,64327	42,02002	5,41565,4942	16,02461	
45	81360,84495,00787	1 39936,36048	1 71994,72371	9,91041,54501,8080	10,14593,05744	27: 0
	10,14881,35259	51,61804	41,99426	5,41765,3460	16,02269	
44	81350,69613,65528	1 39884,74244	1 71952,72945	9,91036,12736,4620	10,14577,03475	26:24
	10,15129,16098	51,59285	41,96852	5,41965,2477	16,02077	
43	81340,54484,49430	1 39833,14959	1 71910,76093	9,91030,70771,2143	10,14561,01398	25:48
	10,15376,93845	51,56767	41,94281	5,42165,1993	16,01887	
42	81330,39107,55585	1 39781,58192	1 71868,81812	9,91025,28606,0150	10,14544,99511	25:12
	10,15624,68499	51,54252	41,91711	5,42365,2009	16,01696	
41	81320,23482,87086	1 39730,03940	1 71826,90101	9,91019,86240,8141	10,14528,97815	24:36
	10,15872,40058	51,51738	41,89144	5,42565,2524	16,01505	
40	81310,07610,47028	1 39678,52202	1 71785,00957	9,91014,43675,5617	10,14512,96310	24: 0
	10,16120,08525	51,49227	41,86579	5,42765,3538	16,01315	
39	81299,91490,38503	1 39627,02975	1 71743,14378	9,91009,00910,2079	10,14496,94995	23:24
	10,16367,73894	51,46718	41,84015	5,42965,5054	16,01125	
38	81289,75122,64609	1 39575,56257	1 71701,30363	9,91003,57944,7025	10,14480,93870	22:48
	10,16615,36169	51,44211	41,81455	5,43165,7069	16,00935	
37	81279,58507,28440	1 39524,12046	1 71659,48908	9,90998,14778,9956	10,14464,92935	22:12
	10,16862,95346	51,41706	41,78896	5,43365,9586	16,00746	
36	81269,41644,33094	1 39472,70340	1 71617,70012	9,90992,71413,0370	10,14448,92189	21:36
	10,17110,51426	51,39204	41,76340	5,43566,2603	16,00556	
35	81259,24533,81668	1 39421,31136	1 71575,93672	9,90987,27846,7767	10,14432,91633	21: 0
	10,17358,04408	51,36703	41,73785	5,43766,6122	16,00367	
34	81249,07175,77260	1 39369,94433	1 71534,19887	9,90981,84080,1645	10,14416,91266	20:24
	10,17605,54290	51,34205	41,71232	5,43967,0144	16,00179	

GRAD. 54.

35. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	58311,59254,44616	71777,92367	1 23093,74609	9,76575,49025,7397	9,85599,08913	40:12
	14,17797,38986	26,44866	15,42451	10,55822,1992	15,99989	
68	58325,77051,83602	71804,37233	1 23109,17060	9,76586,04847,9389	9,85615,08902	40:48
	14,17619,71940	26,45530	15,43213	10,55433,3170	15,99802	
69	58339,94671,55542	71830,82763	1 23124,60273	9,76596,60281,2559	9,85631,08704	41:24
	14,17442,00576	26,46193	15,43975	10,55044,6238	15,99613	
70	58354,12113,56118	71857,28956	1 23140,04248	9,76607,15325,8797	9,85647,08317	42: 0
	14,17264,24894	26,46856	15,44738	10,54656,1193	15,99425	
71	58368,29377,81012	71883,75812	1 23155,48986	9,76617,69981,9990	9,85663,07742	42:36
	14,17086,44895	26,47521	15,45500	10,54267,8035	15,99238	
72	58382,46464,25907	71910,23333	1 23170,94486	9,76628,24249,8025	9,85679,06980	43:12
	14,16908,60580	26,48186	15,46264	10,53879,6762	15,99050	
73	58396,63372,86487	71936,71519	1 23186,40750	9,76638,78129,4787	9,85695,06030	43:48
	14,16730,71947	26,48851	15,47027	10,53491,7371	15,98863	
74	58410,80103,58434	71963,20370	1 23201,87777	9,76649,31621,2158	9,85711,04893	44:24
	14,16552,79000	26,49516	15,47791	10,53103,9864	15,98676	
75	58424,96656,37434	71989,69886	1 23217,35568	9,76659,84725,2022	9,85727,03569	45: 0
	14,16374,81738	26,50182	15,48556	10,52716,4235	15,98489	
76	58439,13031,19172	72016,20068	1 23232,84124	9,76670,37441,6257	9,85743,02058	45:36
	14,16196,80161	26,50848	15,49321	10,52329,0485	15,98303	
77	58453,29227,99333	72042,70916	1 23248,33445	9,76680,89770,6742	9,85759,00361	46:12
	14,16018,74269	26,51515	15,50085	10,51941,8613	15,98116	
78	58467,45246,73602	72069,22431	1 23263,83530	9,76691,41712,5355	9,85774,98477	46:48
	14,15840,64066	26,52183	15,50851	10,51554,8614	15,97931	
79	58481,61087,37668	72095,74614	1 23279,34381	9,76701,93267,3969	9,85790,96408	47:24
	14,15662,49547	26,52849	15,51617	10,51168,0491	15,97745	
80	58495,76749,87215	72122,27463	1 23294,85998	9,76712,44435,4460	9,85806,94153	48: 0
	14,15484,30719	26,53518	15,52384	10,50781,4238	15,97559	
81	58509,92234,17934	72148,80981	1 23310,38382	9,76722,95216,8698	9,85822,91712	48:36
	14,15306,07576	26,54186	15,53150	10,50394,9856	15,97374	
82	58524,07540,25510	72175,35167	1 23325,91532	9,76733,45611,8554	9,85838,89086	49:12
	14,15127,80124	26,54855	15,53917	10,50008,7344	15,97189	
83	58538,22668,05634	72201,90022	1 23341,45449	9,76743,95620,5898	9,85854,86275	49:48
	14,14949,48360	26,55524	15,54684	10,49622,6698	15,97005	
84	58552,37617,53994	72228,45546	1 23357,00133	9,76754,45243,2596	9,85870,83280	50:24
	14,14771,12287	26,56194	15,55453	10,49236,7918	15,96819	
85	58566,52388,66281	72255,01740	1 23372,55586	9,76764,94480,0514	9,85886,80099	51: 0
	14,14592,71903	26,56863	15,56220	10,48851,1002	15,96636	
86	58580,66981,38184	72281,58603	1 23388,11806	9,76775,43331,1516	9,85902,76735	51:36
	14,14414,27211	26,57534	15,56990	10,48465,5949	15,96451	
87	58594,81395,65395	72308,16137	1 23403,68796	9,76785,91796,7465	9,85918,73186	52:12
	14,14235,78209	26,58205	15,57758	10,48080,2756	15,96267	
88	58608,95631,43604	72334,74342	1 23419,26554	9,76796,39877,0221	9,85934,69453	52:48
	14,14057,24901	26,58877	15,58527	10,47695,1424	15,96084	
89	58623,09688,68505	72361,33219	1 23434,85081	9,76806,87572,1645	9,85950,65537	53:24
	14,13878,67284	26,59547	15,59298	10,47310,1948	15,95900	
90	58637,23567,35789	72387,92766	1 23450,44379	9,76817,34882,3593	9,85966,61437	54: 0
	14,13700,05361	26,60220	15,60067	10,46925,4328	15,95718	
91	58651,37267,41150	72414,52986	1 23466,04446	9,76827,81807,7921	9,85982,57155	54:36
	14,13521,39131	26,60893	15,60838	10,46540,8564	15,95534	
92	58665,50788,80281	72441,13879	1 23481,65284	9,76838,28348,6485	9,85998,52689	55:12
	14,13342,68596	26,61565	15,61609	10,46156,4653	15,95352	
93	58679,64131,48877	72467,75444	1 23497,26893	9,76848,74505,1138	9,86014,48041	55:48
	14,13163,93754	26,62239	15,62381	10,45772,2592	15,95169	
94	58693,77295,42631	72494,37683	1 23512,89274	9,76859,20277,3730	9,86030,43210	56:24
	14,12985,14609	26,62913	15,63152	10,45388,2382	15,94987	
95	58707,90280,57240	72521,00596	1 23528,52426	9,76869,65665,6112	9,86046,38197	57: 0
	14,12806,31160	26,63587	15,63924	10,45004,4020	15,94805	
96	58722,03086,88400	72547,64183	1 23544,16350	9,76880,10670,0132	9,86062,33002	57:36
	14,12627,43405	26,64261	15,64696	10,44620,7505	15,94623	
97	58736,15714,31805	72574,28444	1 23559,81046	9,76890,55290,7637	9,86078,27625	58:12
	14,12448,51349	26,64936	15,65470	10,44237,2834	15,94442	
98	58750,28162,83154	72600,93380	1 23575,46516	9,76900,99528,0471	9,86094,22067	58:48
	14,12269,54990	26,65612	15,66243	10,43854,0009	15,94261	
99	58764,40432,38144	72627,58992	1 23591,12759	9,76911,43382,0480	9,86110,16328	59:24
	14,12090,54329	26,66288	15,67016	10,43470,9023	15,94079	
100	58778,52522,92473	72654,25280	1 23606,79775	9,76921,86852,9503	9,86126,10407	60: 0
	14,11911,49366	26,66964	15,67790	10,43087,9880	15,93899	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	81238,89570,22970	1 39318,60228	1 71492,48655	9,90976,40113,1501	10,14400,91087	19:48
	10,17853,01073	51,31708	41,68682	5,44167,4666	15,99989	
32	81228,71717,21897	1 39267,28520	1 71450,79973	9,90970,95945,6835	10,14384,91098	19:12
	10,18100,44755	51,29215	41,66134	5,44367,9691	15,99802	
31	81218,53616,77142	1 39215,99305	1 71409,13839	9,90965,51577,7144	10,14368,91296	18:36
	10,18347,85336	51,26722	41,63588	5,44568,5220	15,99613	
30	81208,35268,91806	1 39164,72583	1 71367,50251	9,90960,07009,1924	10,14352,91683	18: 0
	10,18595,22814	51,24233	41,61044	5,44769,1250	15,99425	
29	81198,16673,68992	1 39113,48350	1 71325,89207	9,90954,62240,0674	10,14336,92258	17:24
	10,18842,57191	51,21744	41,58502	5,44969,7785	15,99238	
28	81187,97831,11801	1 39062,26606	1 71284,30705	9,90949,17270,2889	10,14320,93020	16:48
	10,19089,88463	51,19260	41,55963	5,45170,4823	15,99050	
27	81177,78741,23338	1 39011,07346	1 71242,74742	9,90943,72099,8066	10,14304,93970	16:12
	10,19337,16632	51,16776	41,53424	5,45371,2365	15,98863	
26	81167,59404,06706	1 38959,90570	1 71201,21318	9,90938,26728,5701	10,14288,95107	15:36
	10,19584,41694	51,14294	41,50889	5,45572,0411	15,98676	
25	81157,39819,65012	1 38908,76276	1 71159,70429	9,90932,81156,5290	10,14272,96431	15: 0
	10,19831,63651	51,11815	41,48356	5,45772,8962	15,98489	
24	81147,19988,01361	1 38857,64461	1 71118,22073	9,90927,35383,6328	10,14256,97942	14:24
	10,20078,82502	51,09338	41,45824	5,45973,8018	15,98303	
23	81136,99909,18859	1 38806,55123	1 71076,76249	9,90921,89409,8310	10,14240,99639	13:48
	10,20325,98245	51,06864	41,43295	5,46174,7578	15,98116	
22	81126,79583,20614	1 38755,48259	1 71035,32954	9,90916,43235,0732	10,14225,01523	13:12
	10,20573,10881	51,04390	41,40768	5,46375,7645	15,97931	
21	81116,59010,09733	1 38704,43869	1 70993,92186	9,90910,96859,3087	10,14209,03592	12:36
	10,20820,20406	51,01919	41,38243	5,46576,8218	15,97745	
20	81106,38189,89327	1 38653,41950	1 70952,53943	9,90905,50282,4869	10,14193,05847	12: 0
	10,21067,26824	50,99451	41,35719	5,46777,9295	15,97559	
19	81096,17122,62503	1 38602,42499	1 70911,18224	9,90900,03504,5574	10,14177,08288	11:24
	10,21314,30130	50,96984	41,33199	5,46979,0881	15,97374	
18	81085,95808,32373	1 38551,45515	1 70869,85025	9,90894,56525,4693	10,14161,10914	10:48
	10,21561,30325	50,94520	41,30680	5,47180,2972	15,97189	
17	81075,74247,02048	1 38500,50995	1 70828,54345	9,90889,09345,1721	10,14145,13725	10:12
	10,21808,27408	50,92057	41,28163	5,47381,5570	15,97005	
16	81065,52438,74640	1 38449,58938	1 70787,26182	9,90883,61963,6151	10,14129,16720	9:36
	10,22055,21379	50,89597	41,25648	5,47582,8677	15,96819	
15	81055,30383,53261	1 38398,69341	1 70746,00534	9,90878,14380,7474	10,14113,19901	9: 0
	10,22302,12237	50,87139	41,23136	5,47784,2290	15,96636	
14	81045,08081,41024	1 38347,82202	1 70704,77398	9,90872,66596,5184	10,14097,23265	8:24
	10,22548,99980	50,84682	41,20626	5,47985,6413	15,96451	
13	81034,85532,41044	1 38296,97520	1 70663,56772	9,90867,18610,8771	10,14081,26814	7:48
	10,22795,84609	50,82229	41,18116	5,48187,1042	15,96267	
12	81024,62736,56435	1 38246,15291	1 70622,38656	9,90861,70423,7729	10,14065,30547	7:12
	10,23042,66121	50,79777	41,15611	5,48388,6182	15,96084	
11	81014,39693,90314	1 38195,35514	1 70581,23045	9,90856,22035,1547	10,14049,34463	6:36
	10,23289,44518	50,77326	41,13106	5,48590,1829	15,95900	
10	81004,16404,45796	1 38144,58188	1 70540,09939	9,90850,73444,9718	10,14033,38563	6: 0
	10,23536,19797	50,74880	41,10603	5,48791,7986	15,95718	
9	80993,92868,25999	1 38093,83308	1 70498,99336	9,90845,24653,1732	10,14017,42845	5:24
	10,23782,91959	50,72433	41,08104	5,48993,4653	15,95534	
8	80983,69085,34040	1 38043,10875	1 70457,91232	9,90839,75659,7079	10,14001,47311	4:48
	10,24029,61002	50,69990	41,05605	5,49195,1829	15,95352	
7	80973,45055,73038	1 37992,40885	1 70416,85627	9,90834,26464,5250	10,13985,51959	4:12
	10,24276,26925	50,67548	41,03109	5,49396,9516	15,95169	
6	80963,20779,46113	1 37941,73337	1 70375,82518	9,90828,77067,5734	10,13969,56790	3:36
	10,24522,89729	50,65109	41,00615	5,49598,7714	15,94987	
5	80952,96256,56384	1 37891,08228	1 70334,81903	9,90823,27468,8020	10,13953,61803	3: 0
	10,24769,49411	50,62671	40,98123	5,49800,6422	15,94805	
4	80942,71487,06973	1 37840,45557	1 70293,83780	9,90817,77668,1598	10,13937,66998	2:24
	10,25016,05972	50,60236	40,95633	5,50002,5641	15,94623	
3	80932,46471,01001	1 37789,85321	1 70252,88147	9,90812,27665,5957	10,13921,72375	1:48
	10,25262,59410	50,57802	40,93145	5,50204,5372	15,94442	
2	80922,21208,41591	1 37739,27519	1 70211,95002	9,90806,77461,0585	10,13905,77933	1:12
	10,25509,09726	50,55372	40,90660	5,50406,5615	15,94261	
1	80911,95699,31865	1 37688,72147	1 70171,04342	9,90801,27054,4970	10,13889,83672	0:36
	10,25755,56918	50,52942	40,88175	5,50608,6370	15,94079	
0	80901,69943,74947	1 37638,19205	1 70130,16167	9,90795,76445,8600	10,13873,89593	0: 0
	10,26002,00984	50,50516	40,85694	5,50810,7638	15,93899	

GRAD. 54.

36. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
0	58778,52522,92473	72654,25280	1 23606,79775	9,76921,86852,9503	9,86126,10407	0: 0
	14,11911,49366	26,66964	15,67790	10,43087,9880	15,93899	
1	58792,64434,41839	72680,92244	1 23622,47565	9,76932,29940,9383	9,86142,04306	0:36
	14,11732,40103	26,67641	15,68565	10,42705,2575	15,93718	
2	58806,76166,81942	72707,59885	1 23638,16130	9,76942,72646,1958	9,86157,98024	1:12
	14,11553,26538	26,68318	15,69340	10,42322,7108	15,93538	
3	58820,87720,08480	72734,28203	1 23653,85470	9,76953,14968,9066	9,86173,91562	1:48
	14,11374,08675	26,68995	15,70115	10,41940,3475	15,93358	
4	58834,99094,17155	72760,97198	1 23669,55585	9,76963,56909,2541	9,86189,84920	2:24
	14,11194,86512	26,69673	15,70890	10,41558,1678	15,93178	
5	58849,10289,03667	72787,66871	1 23685,26475	9,76973,98467,4219	9,86205,78098	3: 0
	14,11015,60050	26,70352	15,71667	10,41176,1713	15,92998	
6	58863,21304,63717	72814,37223	1 23700,98142	9,76984,39643,5932	9,86221,71096	3:36
	14,10836,29290	26,71031	15,72443	10,40794,3579	15,92819	
7	58877,32140,93007	72841,08254	1 23716,70585	9,76994,80437,9511	9,86237,63915	4:12
	14,10656,94232	26,71710	15,73219	10,40412,7275	15,92640	
8	58891,42797,87239	72867,79964	1 23732,43804	9,77005,20850,6786	9,86253,56555	4:48
	14,10477,54877	26,72389	15,73997	10,40031,2800	15,92461	
9	58905,53275,42116	72894,52353	1 23748,17801	9,77015,60881,9586	9,86269,49016	5:24
	14,10298,11226	26,73070	15,74774	10,39650,0149	15,92282	
10	58919,63573,53342	72921,25423	1 23763,92575	9,77026,00531,9735	9,86285,41298	6: 0
	14,10118,63279	26,73750	15,75553	10,39268,9325	15,92104	
11	58933,73692,16621	72947,99173	1 23779,68128	9,77036,39800,9060	9,86301,33402	6:36
	14,09939,11035	26,74431	15,76330	10,38888,0324	15,91925	
12	58947,83631,27656	72974,73604	1 23795,44458	9,77046,78688,9384	9,86317,25327	7:12
	14,09759,54499	26,75112	15,77110	10,38507,3145	15,91748	
13	58961,93390,82155	73001,48716	1 23811,21568	9,77057,17196,2529	9,86333,17075	7:48
	14,09579,93665	26,75794	15,77888	10,38126,7786	15,91570	
14	58976,02970,75820	73028,24510	1 23826,99456	9,77067,55323,0315	9,86349,08645	8:24
	14,09400,28540	26,76476	15,78668	10,37746,4246	15,91392	
15	58990,12371,04360	73055,00986	1 23842,78124	9,77077,93069,4561	9,86365,00037	9: 0
	14,09220,59121	26,77159	15,79448	10,37366,2523	15,91215	
16	59004,21591,63481	73081,78145	1 23858,57572	9,77088,30435,7084	9,86380,91252	9:36
	14,09040,85409	26,77842	15,80228	10,36986,2616	15,91038	
17	59018,30632,48890	73108,55987	1 23874,37800	9,77098,67421,9700	9,86396,82290	10:12
	14,08861,07405	26,78525	15,81010	10,36606,4523	15,90862	
18	59032,39493,56295	73135,34512	1 23890,18810	9,77109,04028,4223	9,86412,73152	10:48
	14,08681,25108	26,79210	15,81790	10,36226,8243	15,90684	
19	59046,48174,81403	73162,13722	1 23906,00600	9,77119,40255,2466	9,86428,63836	11:24
	14,08501,38522	26,79893	15,82571	10,35847,3774	15,90509	
20	59060,56676,19925	73188,93615	1 23921,83171	9,77129,76102,6240	9,86444,54345	12: 0
	14,08321,47645	26,80578	15,83354	10,35468,1114	15,90332	
21	59074,64997,67570	73215,74193	1 23937,66525	9,77140,11570,7354	9,86460,44677	12:36
	14,08141,52477	26,81264	15,84136	10,35089,0263	15,90156	
22	59088,73139,20047	73242,55457	1 23953,50661	9,77150,46659,7617	9,86476,34833	13:12
	14,07961,53020	26,81949	15,84918	10,34710,1219	15,89981	
23	59102,81100,73067	73269,37406	1 23969,35579	9,77160,81369,8836	9,86492,24814	13:48
	14,07781,49275	26,82635	15,85702	10,34331,3979	15,89805	
24	59116,88882,22342	73296,20041	1 23985,21281	9,77171,15701,2815	9,86508,14619	14:24
	14,07601,41240	26,83322	15,86485	10,33952,8543	15,89630	
25	59130,96483,63582	73323,03363	1 24001,07766	9,77181,49654,1358	9,86524,04249	15: 0
	14,07421,28919	26,84008	15,87269	10,33574,4908	15,89455	
26	59145,03904,92501	73349,87371	1 24016,95035	9,77191,83228,6266	9,86539,93704	15:36
	14,07241,12309	26,84696	15,88053	10,33196,3076	15,89281	
27	59159,11146,04810	73376,72067	1 24032,83088	9,77202,16424,9342	9,86555,82985	16:12
	14,07060,91414	26,85383	15,88838	10,32818,3040	15,89106	
28	59173,18206,96224	73403,57450	1 24048,71926	9,77212,49243,2382	9,86571,72091	16:48
	14,06880,66232	26,86072	15,89623	10,32440,4803	15,88932	
29	59187,25087,62456	73430,43522	1 24064,61549	9,77222,81683,7185	9,86587,61023	17:24
	14,06700,36764	26,86760	15,90408	10,32062,8363	15,88757	
30	59201,31787,99220	73457,30282	1 24080,51957	9,77233,13746,5548	9,86603,49780	18: 0
	14,06520,03011	26,87449	15,91195	10,31685,3715	15,88584	
31	59215,38308,02231	73484,17731	1 24096,43152	9,77243,45431,9263	9,86619,38364	18:36
	14,06339,64974	26,88139	15,91980	10,31308,0862	15,88411	
32	59229,44647,67205	73511,05870	1 24112,35132	9,77253,76740,0125	9,86635,26775	19:12
	14,06159,22653	26,88828	15,92768	10,30930,9799	15,88237	
33	59243,50806,89858	73537,94698	1 24128,27900	9,77264,07670,9924	9,86651,15012	19:48
	14,05978,76049	26,89519	15,93554	10,30554,0527	15,88064	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
100	80901,69943,74947	1 37638,19205	1 70130,16167	9,90795,76445,8600	10,13873,89593	60: 0
	10,26002,00984	50,50516	40,85694	5,50810,7638	15,93899	
99	80891,43941,73963	1 37587,68689	1 70089,30473	9,90790,25635,0962	10,13857,95694	59:24
	10,26248,41926	50,48090	40,83213	5,51012,9417	15,93718	
98	80881,17693,32037	1 37537,20599	1 70048,47260	9,90784,74622,1545	10,13842,01976	58:48
	10,26494,79741	50,45667	40,80736	5,51215,1711	15,93538	
97	80870,91198,52296	1 37486,74932	1 70007,66524	9,90779,23406,9834	10,13826,08438	58:12
	10,26741,14429	50,43246	40,78261	5,51417,4517	15,93358	
96	80860,64457,37867	1 37436,31686	1 69966,88263	9,90773,71989,5317	10,13810,15080	57:36
	10,26987,45991	50,40828	40,75787	5,51619,7838	15,93178	
95	80850,37469,91876	1 37385,90858	1 69926,12476	9,90768,20369,7479	10,13794,21902	57: 0
	10,27233,74423	50,38410	40,73315	5,51822,1672	15,92998	
94	80840,10236,17453	1 37335,52448	1 69885,39161	9,90762,68547,5807	10,13778,28904	56:24
	10,27479,99726	50,35996	40,70845	5,52024,6021	15,92819	
93	80829,82756,17727	1 37285,16452	1 69844,68316	9,90757,16522,9786	10,13762,36085	55:48
	10,27726,21900	50,33583	40,68378	5,52227,0884	15,92640	
92	80819,55029,95827	1 37234,82869	1 69803,99938	9,90751,64295,8902	10,13746,43445	55:12
	10,27972,40942	50,31172	40,65912	5,52429,6263	15,92461	
91	80809,27057,54885	1 37184,51697	1 69763,34026	9,90746,11866,2639	10,13730,50984	54:36
	10,28218,56854	50,28764	40,63449	5,52632,2156	15,92282	
90	80798,98838,98031	1 37134,22933	1 69722,70577	9,90740,59234,0483	10,13714,58702	54: 0
	10,28464,69634	50,26357	40,60987	5,52834,8567	15,92104	
89	80788,70374,28397	1 37083,96576	1 69682,09590	9,90735,06399,1916	10,13698,66598	53:24
	10,28710,79279	50,23952	40,58528	5,53037,5491	15,91925	
88	80778,41663,49118	1 37033,72624	1 69641,51062	9,90729,53361,6425	10,13682,74673	52:48
	10,28956,85793	50,21550	40,56070	5,53240,2933	15,91748	
87	80768,12706,63325	1 36983,51074	1 69600,94992	9,90724,00121,3492	10,13666,82925	52:12
	10,29202,89171	50,19150	40,53615	5,53443,0892	15,91570	
86	80757,83503,74154	1 36933,31924	1 69560,41377	9,90718,46678,2600	10,13650,91355	51:36
	10,29448,89414	50,16750	40,51161	5,53645,9367	15,91392	
85	80747,54054,84740	1 36883,15174	1 69519,90216	9,90712,93032,3233	10,13634,99963	51: 0
	10,29694,86522	50,14355	40,48709	5,53848,8359	15,91215	
84	80737,24359,98218	1 36833,00819	1 69479,41507	9,90707,39183,4874	10,13619,08748	50:24
	10,29940,80492	50,11959	40,46260	5,54051,7870	15,91038	
83	80726,94419,17726	1 36782,88860	1 69438,95247	9,90701,85131,7004	10,13603,17710	49:48
	10,30186,71326	50,09568	40,43813	5,54254,7897	15,90862	
82	80716,64232,46400	1 36732,79292	1 69398,51434	9,90696,30876,9107	10,13587,26848	49:12
	10,30432,59021	50,07177	40,41367	5,54457,8444	15,90684	
81	80706,33799,87379	1 36682,72115	1 69358,10067	9,90690,76419,0663	10,13571,36164	48:36
	10,30678,43577	50,04788	40,38924	5,54660,9508	15,90509	
80	80696,03121,43802	1 36632,67327	1 69317,71143	9,90685,21758,1155	10,13555,45655	48: 0
	10,30924,24994	50,02402	40,36482	5,54864,1092	15,90332	
79	80685,72197,18808	1 36582,64925	1 69277,34661	9,90679,66894,0063	10,13539,55323	47:24
	10,31170,03271	50,00018	40,34043	5,55067,3195	15,90156	
78	80675,41027,15537	1 36532,64907	1 69237,00618	9,90674,11826,6868	10,13523,65167	46:48
	10,31415,78405	49,97635	40,31605	5,55270,5818	15,89981	
77	80665,09611,37132	1 36482,67272	1 69196,69013	9,90668,56556,1050	10,13507,75186	46:12
	10,31661,50400	49,95255	40,29169	5,55473,8959	15,89805	
76	80654,77949,86732	1 36432,72017	1 69156,39844	9,90663,01082,2091	10,13491,85381	45:36
	10,31907,19249	49,92877	40,26736	5,55677,2621	15,89630	
75	80644,46042,67483	1 36382,79140	1 69116,13108	9,90657,45404,9470	10,13475,95751	45: 0
	10,32152,84958	49,90500	40,24305	5,55880,6805	15,89455	
74	80634,13889,82525	1 36332,88640	1 69075,88803	9,90651,89524,2665	10,13460,06296	44:24
	10,32398,47520	49,88126	40,21875	5,56084,1508	15,89281	
73	80623,81491,35005	1 36283,00514	1 69035,66928	9,90646,33440,1157	10,13444,17015	43:48
	10,32644,06939	49,85753	40,19447	5,56287,6732	15,89106	
72	80613,48847,28066	1 36233,14761	1 68995,47481	9,90640,77152,4425	10,13428,27909	43:12
	10,32889,63212	49,83383	40,17021	5,56491,2479	15,88932	
71	80603,15957,64854	1 36183,31378	1 68955,30460	9,90635,20661,1946	10,13412,38977	42:36
	10,33135,16338	49,81015	40,14598	5,56694,8747	15,88757	
70	80592,82822,48516	1 36133,50363	1 68915,15862	9,90629,63966,3199	10,13396,50220	42: 0
	10,33380,66318	49,78648	40,12177	5,56898,5536	15,88584	
69	80582,49441,82198	1 36083,71715	1 68875,03685	9,90624,07067,7663	10,13380,61636	41:24
	10,33626,13149	49,76284	40,09756	5,57102,2850	15,88411	
68	80572,15815,69049	1 36033,95431	1 68834,93929	9,90618,49965,4813	10,13364,73225	40:48
	10,33871,56832	49,73922	40,07339	5,57306,0684	15,88237	
67	80561,81944,12217	1 35984,21509	1 68794,86590	9,90612,92659,4129	10,13348,84988	40:12
	10,34116,97365	49,71561	40,04923	5,57509,9043	15,88064	

GRAD. 53.

36. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	59243,50806,89858	73537,94698	1 24128,27900	9,77264,07670,9924	9,86651,15012	19:48
	14,05978,76049	26,89519	15,93554	10,30554,0527	15,88064	
34	59257,56785,65907	73564,84217	1 24144,21454	9,77274,38225,0451	9,86667,03076	20:24
	14,05798,25161	26,90210	15,94342	10,30177,3043	15,87891	
35	59271,62583,91068	73591,74427	1 24160,15796	9,77284,68402,3494	9,86682,90967	21: 0
	14,05617,69991	26,90900	15,95130	10,29800,7346	15,87718	
36	59285,68201,61059	73618,65327	1 24176,10926	9,77294,98203,0840	9,86698,78685	21:36
	14,05437,10540	26,91593	15,95917	10,29424,3434	15,87546	
37	59299,73638,71599	73645,56920	1 24192,06843	9,77305,27627,4274	9,86714,66231	22:12
	14,05256,46808	26,92284	15,96707	10,29048,1307	15,87374	
38	59313,78895,18407	73672,49204	1 24208,03550	9,77315,56675,5581	9,86730,53605	22:48
	14,05075,78794	26,92977	15,97496	10,28672,0961	15,87202	
39	59327,83970,97201	73699,42181	1 24224,01046	9,77325,85347,6542	9,86746,40807	23:24
	14,04895,06500	26,93669	15,98285	10,28296,2397	15,87030	
40	59341,88866,03701	73726,35850	1 24239,99331	9,77336,13643,8939	9,86762,27837	24: 0
	14,04714,29928	26,94363	15,99075	10,27920,5611	15,86859	
41	59355,93580,33629	73753,30213	1 24255,98406	9,77346,41564,4550	9,86778,14696	24:36
	14,04533,49076	26,95057	15,99866	10,27545,0605	15,86688	
42	59369,98113,82705	73780,25270	1 24271,98272	9,77356,69109,5155	9,86794,01384	25:12
	14,04352,63945	26,95751	16,00656	10,27169,7375	15,86516	
43	59384,02466,46650	73807,21021	1 24287,98928	9,77366,96279,2530	9,86809,87900	25:48
	14,04171,74537	26,96445	16,01447	10,26794,5919	15,86346	
44	59398,06638,21187	73834,17466	1 24304,00375	9,77377,23073,8449	9,86825,74246	26:24
	14,03990,80852	26,97141	16,02239	10,26419,6236	15,86175	
45	59412,10629,02039	73861,14607	1 24320,02614	9,77387,49493,4685	9,86841,60421	27: 0
	14,03809,82888	26,97836	16,03030	10,26044,8327	15,86005	
46	59426,14438,84927	73888,12443	1 24336,05644	9,77397,75538,3012	9,86857,46426	27:36
	14,03628,80650	26,98532	16,03823	10,25670,2187	15,85835	
47	59440,18067,65577	73915,10975	1 24352,09467	9,77408,01208,5199	9,86873,32261	28:12
	14,03447,74136	26,99228	16,04616	10,25295,7817	15,85665	
48	59454,21515,39713	73942,10203	1 24368,14083	9,77418,26504,3016	9,86889,17926	28:48
	14,03266,63346	26,99925	16,05408	10,24921,5214	15,85495	
49	59468,24782,03059	73969,10128	1 24384,19491	9,77428,51425,8230	9,86905,03421	29:24
	14,03085,48282	27,00622	16,06203	10,24547,4376	15,85326	
50	59482,27867,51341	73996,10750	1 24400,25694	9,77438,75973,2606	9,86920,88747	30: 0
	14,02904,28944	27,01320	16,06996	10,24173,5305	15,85156	
51	59496,30771,80285	74023,12070	1 24416,32690	9,77449,00146,7911	9,86936,73903	30:36
	14,02723,05332	27,02018	16,07790	10,23799,7995	15,84988	
52	59510,33494,85617	74050,14088	1 24432,40480	9,77459,23946,5906	9,86952,58891	31:12
	14,02541,77448	27,02717	16,08585	10,23426,2448	15,84819	
53	59524,36036,63065	74077,16805	1 24448,49065	9,77469,47372,8354	9,86968,43710	31:48
	14,02360,45290	27,03415	16,09381	10,23052,8660	15,84651	
54	59538,38397,08355	74104,20220	1 24464,58446	9,77479,70425,7014	9,86984,28361	32:24
	14,02179,08861	27,04115	16,10176	10,22679,6631	15,84482	
55	59552,40576,17216	74131,24335	1 24480,68622	9,77489,93105,3645	9,87000,12843	33: 0
	14,01997,68162	27,04815	16,10971	10,22306,6360	15,84314	
56	59566,42573,85378	74158,29150	1 24496,79593	9,77500,15412,0005	9,87015,97157	33:36
	14,01816,23190	27,05515	16,11769	10,21933,7845	15,84147	
57	59580,44390,08568	74185,34665	1 24512,91362	9,77510,37345,7850	9,87031,81304	34:12
	14,01634,73950	27,06215	16,12564	10,21561,1082	15,83978	
58	59594,46024,82518	74212,40880	1 24529,03926	9,77520,58906,8932	9,87047,65282	34:48
	14,01453,20439	27,06917	16,13363	10,21188,6075	15,83812	
59	59608,47478,02957	74239,47797	1 24545,17289	9,77530,80095,5007	9,87063,49094	35:24
	14,01271,62659	27,07618	16,14159	10,20816,2817	15,83644	
60	59622,48749,65616	74266,55415	1 24561,31448	9,77541,00911,7824	9,87079,32738	36: 0
	14,01090,00611	27,08321	16,14958	10,20444,1310	15,83478	
61	59636,49839,66227	74293,63736	1 24577,46406	9,77551,21355,9134	9,87095,16216	36:36
	14,00908,34294	27,09023	16,15756	10,20072,1550	15,83311	
62	59650,50748,00521	74320,72759	1 24593,62162	9,77561,41428,0684	9,87110,99527	37:12
	14,00726,63711	27,09725	16,16555	10,19700,3539	15,83144	
63	59664,51474,64232	74347,82484	1 24609,78717	9,77571,61128,4223	9,87126,82671	37:48
	14,00544,88861	27,10429	16,17354	10,19328,7273	15,82978	
64	59678,52019,53093	74374,92913	1 24625,96071	9,77581,80457,1496	9,87142,65649	38:24
	14,00363,09743	27,11133	16,18154	10,18957,2750	15,82812	
65	59692,52382,62836	74402,04046	1 24642,14225	9,77591,99414,4246	9,87158,48461	39: 0
	14,00181,26362	27,11837	16,18954	10,18585,9971	15,82647	
66	59706,52563,89198	74429,15883	1 24658,33179	9,77602,18000,4217	9,87174,31108	39:36
	13,99999,38713	27,12542	16,19754	10,18214,8932	15,82481	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	80561,81944,12217	1 35984,21509	1 68794,86590	9,90612,92659,4129	10,13348,84988	40:12
	10,34116,97365	49,71561	40,04923	5,57509,9043	15,88064	
66	80551,47827,14852	1 35934,49948	1 68754,81667	9,90607,35149,5086	10,13332,96924	39:36
	10,34362,34749	49,69202	40,02509	5,57713,7924	15,87891	
65	80541,13464,80103	1 35884,80746	1 68714,79158	9,90601,77435,7162	10,13317,09033	39: 0
	10,34607,68981	49,66846	40,00097	5,57917,7330	15,87718	
64	80530,78857,11122	1 35835,13900	1 68674,79061	9,90596,19517,9832	10,13301,21315	38:24
	10,34853,00062	49,64492	39,97688	5,58121,7259	15,87546	
63	80520,44004,11060	1 35785,49408	1 68634,81373	9,90590,61396,2573	10,13285,33769	37:48
	10,35098,27991	49,62139	39,95279	5,58325,7713	15,87374	
62	80510,08905,83069	1 35735,87269	1 68594,86094	9,90585,03070,4860	10,13269,46395	37:12
	10,35343,52767	49,59789	39,92874	5,58529,8691	15,87202	
61	80499,73562,30302	1 35686,27480	1 68554,93220	9,90579,44540,6169	10,13253,59193	36:36
	10,35588,74388	49,57440	39,90469	5,58734,0195	15,87030	
60	80489,37973,55914	1 35636,70040	1 68515,02751	9,90573,85806,5974	10,13237,72163	36: 0
	10,35833,92855	49,55093	39,88068	5,58938,2225	15,86859	
59	80479,02139,63059	1 35587,14947	1 68475,14683	9,90568,26868,3749	10,13221,85304	35:24
	10,36079,08167	49,52749	39,85667	5,59142,4778	15,86688	
58	80468,66060,54892	1 35537,62198	1 68435,29016	9,90562,67725,8971	10,13205,98616	34:48
	10,36324,20323	49,50406	39,83269	5,59346,7859	15,86516	
57	80458,29736,34569	1 35488,11792	1 68395,45747	9,90557,08379,1112	10,13190,12100	34:12
	10,36569,29322	49,48065	39,80872	5,59551,1467	15,86346	
56	80447,93167,05247	1 35438,63727	1 68355,64875	9,90551,48827,9645	10,13174,25754	33:36
	10,36814,35163	49,45727	39,78479	5,59755,5600	15,86175	
55	80437,56352,70084	1 35389,18000	1 68315,86396	9,90545,89072,4045	10,13158,39579	33: 0
	10,37059,37845	49,43390	39,76086	5,59960,0260	15,86005	
54	80427,19293,32239	1 35339,74610	1 68276,10310	9,90540,29112,3785	10,13142,53574	32:24
	10,37304,37370	49,41055	39,73696	5,60164,5449	15,85835	
53	80416,81988,94869	1 35290,33555	1 68236,36614	9,90534,68947,8336	10,13126,67739	31:48
	10,37549,33734	49,38722	39,71307	5,60369,1164	15,85665	
52	80406,44439,61135	1 35240,94833	1 68196,65307	9,90529,08578,7172	10,13110,82074	31:12
	10,37794,26938	49,36391	39,68920	5,60573,7408	15,85495	
51	80396,06645,34197	1 35191,58442	1 68156,96387	9,90523,48004,9764	10,13094,96579	30:36
	10,38039,16980	49,34063	39,66536	5,60778,4179	15,85326	
50	80385,68606,17217	1 35142,24379	1 68117,29851	9,90517,87226,5585	10,13079,11253	30: 0
	10,38284,03860	49,31735	39,64153	5,60983,1481	15,85156	
49	80375,30322,13357	1 35092,92644	1 68077,65698	9,90512,26243,4104	10,13063,26097	29:24
	10,38528,87577	49,29410	39,61773	5,61187,9309	15,84988	
48	80364,91793,25780	1 35043,63234	1 68038,03925	9,90506,65055,4795	10,13047,41109	28:48
	10,38773,68131	49,27087	39,59393	5,61392,7669	15,84819	
47	80354,53019,57649	1 34994,36147	1 67998,44532	9,90501,03662,7126	10,13031,56290	28:12
	10,39018,45521	49,24766	39,57017	5,61597,6557	15,84651	
46	80344,14001,12128	1 34945,11381	1 67958,87515	9,90495,42065,0569	10,13015,71639	27:36
	10,39263,19746	49,22446	39,54642	5,61802,5976	15,84482	
45	80333,74737,92382	1 34895,88935	1 67919,32873	9,90489,80262,4593	10,12999,87157	27: 0
	10,39507,90804	49,20130	39,52268	5,62007,5924	15,84314	
44	80323,35230,01578	1 34846,68805	1 67879,80605	9,90484,18254,8669	10,12984,02843	26:24
	10,39752,58697	49,17814	39,49897	5,62212,6404	15,84147	
43	80312,95477,42881	1 34797,50991	1 67840,30708	9,90478,56042,2265	10,12968,18696	25:48
	10,39997,23421	49,15500	39,47529	5,62417,7414	15,83978	
42	80302,55480,19460	1 34748,35491	1 67800,83179	9,90472,93624,4851	10,12952,34718	25:12
	10,40241,84979	49,13189	39,45160	5,62622,8955	15,83812	
41	80292,15238,34481	1 34699,22302	1 67761,38019	9,90467,31001,5896	10,12936,50906	24:36
	10,40486,43366	49,10879	39,42796	5,62828,1029	15,83644	
40	80281,74751,91115	1 34650,11423	1 67721,95223	9,90461,68173,4867	10,12920,67262	24: 0
	10,40730,98586	49,08572	39,40431	5,63033,3634	15,83478	
39	80271,34020,92529	1 34601,02851	1 67682,54792	9,90456,05140,1233	10,12904,83784	23:24
	10,40975,50634	49,06266	39,38070	5,63238,6771	15,83311	
38	80260,93045,41895	1 34551,96585	1 67643,16722	9,90450,41901,4462	10,12889,00473	22:48
	10,41219,99511	49,03962	39,35711	5,63444,0442	15,83144	
37	80250,51825,42384	1 34502,92623	1 67603,81011	9,90444,78457,4020	10,12873,17329	22:12
	10,41464,45217	49,01660	39,33352	5,63649,4644	15,82978	
36	80240,10360,97167	1 34453,90963	1 67564,47659	9,90439,14807,9376	10,12857,34351	21:36
	10,41708,87751	48,99361	39,30997	5,63854,9381	15,82812	
35	80229,68652,09416	1 34404,91602	1 67525,16662	9,90433,50952,9995	10,12841,51539	21: 0
	10,41953,27110	48,97062	39,28643	5,64060,4651	15,82647	
34	80219,26698,82306	1 34355,94540	1 67485,88019	9,90427,86892,5344	10,12825,68892	20:24
	10,42197,63297	48,94766	39,26290	5,64266,0454	15,82481	

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36. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	59720,52563,27911	74456,28425	1 24674,52933	9,77612,36215,3149	9,87190,13589	40:12
	13,99817,46801	27,13246	16,20555	10,17843,9633	15,82315	
68	59734,52380,74712	74483,41671	1 24690,73488	9,77622,54059,2782	9,87205,95904	40:48
	13,99635,50625	27,13953	16,21357	10,17473,2073	15,82151	
69	59748,52016,25337	74510,55624	1 24706,94845	9,77632,71532,4855	9,87221,78055	41:24
	13,99453,50184	27,14658	16,22158	10,17102,6249	15,81986	
70	59762,51469,75521	74537,70282	1 24723,17003	9,77642,88635,1104	9,87237,60041	42: 0
	13,99271,45482	27,15364	16,22960	10,16732,2161	15,81821	
71	59776,50741,21003	74564,85646	1 24739,39963	9,77653,05367,3265	9,87253,41862	42:36
	13,99089,36516	27,16072	16,23762	10,16361,9806	15,81657	
72	59790,49830,57519	74592,01718	1 24755,63725	9,77663,21729,3071	9,87269,23519	43:12
	13,98907,23289	27,16779	16,24566	10,15991,9185	15,81492	
73	59804,48737,80808	74619,18497	1 24771,88291	9,77673,37721,2256	9,87285,05011	43:48
	13,98725,05800	27,17486	16,25369	10,15622,0293	15,81329	
74	59818,47462,86608	74646,35983	1 24788,13660	9,77683,53343,2549	9,87300,86340	44:24
	13,98542,84051	27,18195	16,26173	10,15252,3133	15,81165	
75	59832,46005,70659	74673,54178	1 24804,39833	9,77693,68595,5682	9,87316,67505	45: 0
	13,98360,58041	27,18903	16,26977	10,14882,7699	15,81001	
76	59846,44366,28700	74700,73081	1 24820,66810	9,77703,83478,3381	9,87332,48506	45:36
	13,98178,27773	27,19612	16,27781	10,14513,3993	15,80838	
77	59860,42544,56473	74727,92693	1 24836,94591	9,77713,97991,7374	9,87348,29344	46:12
	13,97995,93244	27,20322	16,28586	10,14144,2012	15,80676	
78	59874,40540,49717	74755,13015	1 24853,23177	9,77724,12135,9386	9,87364,10020	46:48
	13,97813,54457	27,21032	16,29392	10,13775,1755	15,80512	
79	59888,38354,04174	74782,34047	1 24869,52569	9,77734,25911,1141	9,87379,90532	47:24
	13,97631,11412	27,21742	16,30198	10,13406,3220	15,80350	
80	59902,35985,15586	74809,55789	1 24885,82767	9,77744,39317,4361	9,87395,70882	48: 0
	13,97448,64110	27,22453	16,31004	10,13037,6406	15,80187	
81	59916,33433,79696	74836,78242	1 24902,13771	9,77754,52355,0767	9,87411,51069	48:36
	13,97266,12551	27,23165	16,31810	10,12669,1312	15,80025	
82	59930,30699,92247	74864,01407	1 24918,45581	9,77764,65024,2079	9,87427,31094	49:12
	13,97083,56735	27,23876	16,32618	10,12300,7936	15,79864	
83	59944,27783,48982	74891,25283	1 24934,78199	9,77774,77325,0015	9,87443,10958	49:48
	13,96900,96664	27,24588	16,33425	10,11932,6277	15,79702	
84	59958,24684,45646	74918,49871	1 24951,11624	9,77784,89257,6292	9,87458,90660	50:24
	13,96718,32338	27,25301	16,34233	10,11564,6333	15,79540	
85	59972,21402,77984	74945,75172	1 24967,45857	9,77795,00822,2625	9,87474,70200	51: 0
	13,96535,63757	27,26013	16,35041	10,11196,8103	15,79379	
86	59986,17938,41741	74973,01185	1 24983,80898	9,77805,12019,0728	9,87490,49579	51:36
	13,96352,90922	27,26728	16,35850	10,10829,1585	15,79218	
87	60000,14291,32663	75000,27913	1 25000,16748	9,77815,22848,2313	9,87506,28797	52:12
	13,96170,13833	27,27441	16,36659	10,10461,6778	15,79057	
88	60014,10461,46496	75027,55354	1 25016,53407	9,77825,33309,9091	9,87522,07854	52:48
	13,95987,32491	27,28156	16,37468	10,10094,3682	15,78897	
89	60028,06448,78987	75054,83510	1 25032,90875	9,77835,43404,2773	9,87537,86751	53:24
	13,95804,46897	27,28870	16,38279	10,09727,2292	15,78737	
90	60042,02253,25884	75082,12380	1 25049,29154	9,77845,53131,5065	9,87553,65488	54: 0
	13,95621,57051	27,29586	16,39089	10,09360,2611	15,78576	
91	60055,97874,82935	75109,41966	1 25065,68243	9,77855,62491,7676	9,87569,44064	54:36
	13,95438,62954	27,30302	16,39900	10,08993,4634	15,78416	
92	60069,93313,45889	75136,72268	1 25082,08143	9,77865,71485,2310	9,87585,22480	55:12
	13,95255,64606	27,31018	16,40711	10,08626,8361	15,78257	
93	60083,88569,10495	75164,03286	1 25098,48854	9,77875,80112,0671	9,87601,00737	55:48
	13,95072,62008	27,31734	16,41523	10,08260,3791	15,78098	
94	60097,83641,72503	75191,35020	1 25114,90377	9,77885,88372,4462	9,87616,78835	56:24
	13,94889,55160	27,32452	16,42335	10,07894,0922	15,77938	
95	60111,78531,27663	75218,67472	1 25131,32712	9,77895,96266,5384	9,87632,56773	57: 0
	13,94706,44064	27,33169	16,43147	10,07527,9753	15,77779	
96	60125,73237,71727	75246,00641	1 25147,75859	9,77906,03794,5137	9,87648,34552	57:36
	13,94523,28717	27,33887	16,43960	10,07162,0282	15,77621	
97	60139,67761,00444	75273,34528	1 25164,19819	9,77916,10956,5419	9,87664,12173	58:12
	13,94340,09125	27,34605	16,44774	10,06796,2508	15,77461	
98	60153,62101,09569	75300,69133	1 25180,64593	9,77926,17752,7927	9,87679,89634	58:48
	13,94156,85283	27,35324	16,45587	10,06430,6429	15,77304	
99	60167,56257,94852	75328,04457	1 25197,10180	9,77936,24183,4356	9,87695,66938	59:24
	13,93973,57196	27,36044	16,46402	10,06065,2045	15,77146	
100	60181,50231,52048	75355,40501	1 25213,56582	9,77946,30248,6401	9,87711,44084	60: 0
	13,93790,24862	27,36763	16,47216	10,05699,9354	15,76987	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	80208,84501,19009	1 34306,99774	1 67446,61729	9,90422,22626,4890	10,12809,86411	19:48
	10,42441,96308	48,92472	39,23940	5,64471,6793	15,82315	
32	80198,42059,22701	1 34258,07302	1 67407,37789	9,90416,58154,8097	10,12794,04096	19:12
	10,42686,26144	48,90179	39,21592	5,64677,3665	15,82151	
31	80187,99372,96557	1 34209,17123	1 67368,16197	9,90410,93477,4432	10,12778,21945	18:36
	10,42930,52803	48,87890	39,19245	5,64883,1073	15,81986	
30	80177,56442,43754	1 34160,29233	1 67328,96952	9,90405,28594,3359	10,12762,39959	18: 0
	10,43174,76286	48,85600	39,16901	5,65088,9016	15,81821	
29	80167,13267,67468	1 34111,43633	1 67289,80051	9,90399,63505,4343	10,12746,58138	17:24
	10,43418,96591	48,83314	39,14558	5,65294,7495	15,81657	
28	80156,69848,70877	1 34062,60319	1 67250,65493	9,90393,98210,6848	10,12730,76481	16:48
	10,43663,13718	48,81030	39,12218	5,65500,6509	15,81492	
27	80146,26185,57159	1 34013,79289	1 67211,53275	9,90388,32710,0339	10,12714,94989	16:12
	10,43907,27666	48,78746	39,09878	5,65706,6060	15,81329	
26	80135,82278,29493	1 33965,00543	1 67172,43397	9,90382,67003,4279	10,12699,13660	15:36
	10,44151,38432	48,76466	39,07541	5,65912,6147	15,81165	
25	80125,38126,91061	1 33916,24077	1 67133,35856	9,90377,01090,8132	10,12683,32495	15: 0
	10,44395,46020	48,74187	39,05207	5,66118,6772	15,81001	
24	80114,93731,45041	1 33867,49890	1 67094,30649	9,90371,34972,1360	10,12667,51494	14:24
	10,44639,50425	48,71909	39,02872	5,66324,7933	15,80838	
23	80104,49091,94616	1 33818,77981	1 67055,27777	9,90365,68647,3427	10,12651,70656	13:48
	10,44883,51648	48,69635	39,00542	5,66530,9633	15,80676	
22	80094,04208,42968	1 33770,08346	1 67016,27235	9,90360,02116,3794	10,12635,89980	13:12
	10,45127,49689	48,67361	38,98212	5,66737,1870	15,80512	
21	80083,59080,93279	1 33721,40985	1 66977,29023	9,90354,35379,1924	10,12620,09468	12:36
	10,45371,44546	48,65089	38,95884	5,66943,4645	15,80350	
20	80073,13709,48733	1 33672,75896	1 66938,33139	9,90348,68435,7279	10,12604,29118	12: 0
	10,45615,36217	48,62820	38,93558	5,67149,7960	15,80187	
19	80062,68094,12516	1 33624,13076	1 66899,39581	9,90343,01285,9319	10,12588,48931	11:24
	10,45859,24705	48,60553	38,91235	5,67356,1813	15,80025	
18	80052,22234,87811	1 33575,52523	1 66860,48346	9,90337,33929,7506	10,12572,68906	10:48
	10,46103,10007	48,58286	38,88912	5,67562,6205	15,79864	
17	80041,76131,77804	1 33526,94237	1 66821,59434	9,90331,66367,1301	10,12556,89042	10:12
	10,46346,92121	48,56023	38,86592	5,67769,1138	15,79702	
16	80031,29784,85683	1 33478,38214	1 66782,72842	9,90325,98598,0163	10,12541,09340	9:36
	10,46590,71048	48,53761	38,84274	5,67975,6609	15,79540	
15	80020,83194,14635	1 33429,84453	1 66743,88568	9,90320,30622,3554	10,12525,29800	9: 0
	10,46834,46788	48,51500	38,81957	5,68182,2622	15,79379	
14	80010,36359,67847	1 33381,32953	1 66705,06611	9,90314,62440,0932	10,12509,50421	8:24
	10,47078,19338	48,49242	38,79642	5,68388,9175	15,79218	
13	79999,89281,48509	1 33332,83711	1 66666,26969	9,90308,94051,1757	10,12493,71203	7:48
	10,47321,88700	48,46986	38,77330	5,68595,6269	15,79057	
12	79989,41959,59809	1 33284,36725	1 66627,49639	9,90303,25455,5488	10,12477,92146	7:12
	10,47565,54869	48,44731	38,75019	5,68802,3905	15,78897	
11	79978,94394,04940	1 33235,91994	1 66588,74620	9,90297,56653,1583	10,12462,13249	6:36
	10,47809,17849	48,42479	38,72709	5,69009,2081	15,78737	
10	79968,46584,87091	1 33187,49515	1 66550,01911	9,90291,87643,9502	10,12446,34512	6: 0
	10,48052,77637	48,40228	38,70403	5,69216,0801	15,78576	
9	79957,98532,09454	1 33139,09287	1 66511,31508	9,90286,18427,8701	10,12430,55936	5:24
	10,48296,34232	48,37979	38,68097	5,69423,0062	15,78416	
8	79947,50235,75222	1 33090,71308	1 66472,63411	9,90280,49004,8639	10,12414,77520	4:48
	10,48539,87634	48,35731	38,65793	5,69629,9867	15,78257	
7	79937,01695,87588	1 33042,35577	1 66433,97618	9,90274,79374,8772	10,12398,99263	4:12
	10,48783,37842	48,33487	38,63491	5,69837,0213	15,78098	
6	79926,52912,49746	1 32994,02090	1 66395,34127	9,90269,09537,8559	10,12383,21165	3:36
	10,49026,84854	48,31243	38,61192	5,70044,1104	15,77938	
5	79916,03885,64892	1 32945,70847	1 66356,72935	9,90263,39493,7455	10,12367,43227	3: 0
	10,49270,28672	48,29002	38,58894	5,70251,2538	15,77779	
4	79905,54615,36220	1 32897,41845	1 66318,14041	9,90257,69242,4917	10,12351,65448	2:24
	10,49513,69294	48,26762	38,56597	5,70458,4517	15,77621	
3	79895,05101,66926	1 32849,15083	1 66279,57444	9,90251,98784,0400	10,12335,87827	1:48
	10,49757,06717	48,24524	38,54303	5,70665,7039	15,77461	
2	79884,55344,60209	1 32800,90559	1 66241,03141	9,90246,28118,3361	10,12320,10366	1:12
	10,50000,40944	48,22289	38,52010	5,70873,0107	15,77304	
1	79874,05344,19265	1 32752,68270	1 66202,51131	9,90240,57245,3254	10,12304,33062	0:36
	10,50243,71972	48,20054	38,49720	5,71080,3719	15,77146	
0	79863,55100,47293	1 32704,48216	1 66164,01411	9,90234,86164,9535	10,12288,55916	0: 0
	10,50486,99801	48,17822	38,47430	5,71287,7877	15,76987	

GRAD. 53.

37. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
0	60181,50231,52048	75355,40501	1 25213,56582	9,77946,30248,6401	9,87711,44084	0: 0
	13,93790,24862	27,36763	16,47216	10,05699,9354	15,76987	
1	60195,44021,76910	75382,77264	1 25230,03798	9,77956,35948,5755	9,87727,21071	0:36
	13,93606,88283	27,37484	16,48031	10,05334,8353	15,76831	
2	60209,37628,65193	75410,14748	1 25246,51829	9,77966,41283,4108	9,87742,97902	1:12
	13,93423,47457	27,38205	16,48846	10,04969,9043	15,76672	
3	60223,31052,12650	75437,52953	1 25263,00675	9,77976,46253,3151	9,87758,74574	1:48
	13,93240,02389	27,38925	16,49663	10,04605,1421	15,76516	
4	60237,24292,15039	75464,91878	1 25279,50338	9,77986,50858,4572	9,87774,51090	2:24
	13,93056,53074	27,39647	16,50478	10,04240,5486	15,76358	
5	60251,17348,68113	75492,31525	1 25296,00816	9,77996,55099,0058	9,87790,27448	3: 0
	13,92872,99518	27,40369	16,51296	10,03876,1237	15,76202	
6	60265,10221,67631	75519,71894	1 25312,52112	9,78006,58975,1295	9,87806,03650	3:36
	13,92689,41718	27,41092	16,52112	10,03511,8672	15,76045	
7	60279,02911,09349	75547,12986	1 25329,04224	9,78016,62486,9967	9,87821,79695	4:12
	13,92505,79676	27,41814	16,52931	10,03147,7791	15,75889	
8	60292,95416,89025	75574,54800	1 25345,57155	9,78026,65634,7758	9,87837,55584	4:48
	13,92322,13391	27,42538	16,53748	10,02783,8591	15,75733	
9	60306,87739,02416	75601,97338	1 25362,10903	9,78036,68418,6349	9,87853,31317	5:24
	13,92138,42866	27,43262	16,54566	10,02420,1071	15,75577	
10	60320,79877,45282	75629,40600	1 25378,65469	9,78046,70838,7420	9,87869,06894	6: 0
	13,91954,68101	27,43986	16,55386	10,02056,5230	15,75422	
11	60334,71832,13383	75656,84586	1 25395,20855	9,78056,72895,2650	9,87884,82316	6:36
	13,91770,89094	27,44711	16,56204	10,01693,1066	15,75266	
12	60348,63603,02477	75684,29297	1 25411,77059	9,78066,74588,3716	9,87900,57582	7:12
	13,91587,05848	27,45436	16,57024	10,01329,8579	15,75111	
13	60362,55190,08325	75711,74733	1 25428,34083	9,78076,75918,2295	9,87916,32693	7:48
	13,91403,18363	27,46162	16,57845	10,00966,7765	15,74956	
14	60376,46593,26688	75739,20895	1 25444,91928	9,78086,76885,0060	9,87932,07649	8:24
	13,91219,26641	27,46888	16,58665	10,00603,8626	15,74801	
15	60390,37812,53329	75766,67783	1 25461,50593	9,78096,77488,8686	9,87947,82450	9: 0
	13,91035,30679	27,47615	16,59486	10,00241,1159	15,74647	
16	60404,28847,84008	75794,15398	1 25478,10079	9,78106,77729,9845	9,87963,57097	9:36
	13,90851,30480	27,48341	16,60307	9,99878,5360	15,74492	
17	60418,19699,14488	75821,63739	1 25494,70386	9,78116,77608,5205	9,87979,31589	10:12
	13,90667,26046	27,49069	16,61129	9,99516,1233	15,74339	
18	60432,10366,40534	75849,12808	1 25511,31515	9,78126,77124,6438	9,87995,05928	10:48
	13,90483,17374	27,49797	16,61951	9,99153,8773	15,74184	
19	60446,00849,57908	75876,62605	1 25527,93466	9,78136,76278,5211	9,88010,80112	11:24
	13,90299,04467	27,50526	16,62774	9,98791,7978	15,74031	
20	60459,91148,62375	75904,13131	1 25544,56240	9,78146,75070,3189	9,88026,54143	12: 0
	13,90114,87325	27,51254	16,63598	9,98429,8850	15,73877	
21	60473,81263,49700	75931,64385	1 25561,19838	9,78156,73500,2039	9,88042,28020	12:36
	13,89930,65948	27,51983	16,64420	9,98068,1385	15,73725	
22	60487,71194,15648	75959,16368	1 25577,84258	9,78166,71568,3424	9,88058,01745	13:12
	13,89746,40337	27,52714	16,65245	9,97706,5582	15,73571	
23	60501,60940,55985	75986,69082	1 25594,49503	9,78176,69274,9006	9,88073,75316	13:48
	13,89562,10493	27,53443	16,66069	9,97345,1439	15,73419	
24	60515,50502,66478	76014,22525	1 25611,15572	9,78186,66620,0445	9,88089,48735	14:24
	13,89377,76416	27,54174	16,66894	9,96983,8958	15,73266	
25	60529,39880,42894	76041,76699	1 25627,82466	9,78196,63603,9403	9,88105,22001	15: 0
	13,89193,38107	27,54906	16,67719	9,96622,8133	15,73114	
26	60543,29073,81001	76069,31605	1 25644,50185	9,78206,60226,7536	9,88120,95115	15:36
	13,89008,95566	27,55637	16,68544	9,96261,8966	15,72961	
27	60557,18082,76567	76096,87242	1 25661,18729	9,78216,56488,6502	9,88136,68076	16:12
	13,88824,48794	27,56369	16,69371	9,95901,1454	15,72810	
28	60571,06907,25361	76124,43611	1 25677,88100	9,78226,52389,7956	9,88152,40886	16:48
	13,88639,97792	27,57102	16,70198	9,95540,5597	15,72659	
29	60584,95547,23153	76152,00713	1 25694,58298	9,78236,47930,3553	9,88168,13545	17:24
	13,88455,42558	27,57834	16,71024	9,95180,1391	15,72506	
30	60598,84002,65711	76179,58547	1 25711,29322	9,78246,43110,4944	9,88183,86051	18: 0
	13,88270,83096	27,58568	16,71852	9,94819,8838	15,72356	
31	60612,72273,48807	76207,17115	1 25728,01174	9,78256,37930,3782	9,88199,58407	18:36
	13,88086,19405	27,59302	16,72679	9,94459,7935	15,72205	
32	60626,60359,68212	76234,76417	1 25744,73853	9,78266,32390,1717	9,88215,30612	19:12
	13,87901,51486	27,60037	16,73508	9,94099,8680	15,72054	
33	60640,48261,19698	76262,36454	1 25761,47361	9,78276,26490,0397	9,88231,02666	19:48
	13,87716,79338	27,60771	16,74337	9,93740,1072	15,71903	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
100	79863,55100,47293	1 32704,48216	1 66164,01411	9,90234,86164,9535	10,12288,55916	60: 0
	10,50486,99801	48,17822	38,47430	5,71287,7877	15,76987	
99	79853,04613,47492	1 32656,30394	1 66125,53981	9,90229,14877,1658	10,12272,78929	59:24
	10,50730,24430	48,15591	38,45144	5,71495,2581	15,76831	
98	79842,53883,23062	1 32608,14803	1 66087,08837	9,90223,43381,9077	10,12257,02098	58:48
	10,50973,45857	48,13363	38,42858	5,71702,7831	15,76672	
97	79832,02909,77205	1 32560,01440	1 66048,65979	9,90217,71679,1246	10,12241,25426	58:12
	10,51216,64085	48,11136	38,40575	5,71910,3626	15,76516	
96	79821,51693,13120	1 32511,90304	1 66010,25404	9,90211,99768,7620	10,12225,48910	57:36
	10,51459,79109	48,08912	38,38293	5,72117,9970	15,76358	
95	79811,00233,34011	1 32463,81392	1 65971,87111	9,90206,27650,7650	10,12209,72552	57: 0
	10,51702,90930	48,06688	38,36014	5,72325,6860	15,76202	
94	79800,48530,43081	1 32415,74704	1 65933,51097	9,90200,55325,0790	10,12193,96350	56:24
	10,51945,99548	48,04467	38,33735	5,72533,4298	15,76045	
93	79789,96584,43533	1 32367,70237	1 65895,17362	9,90194,82791,6492	10,12178,20305	55:48
	10,52189,04962	48,02248	38,31459	5,72741,2283	15,75889	
92	79779,44395,38571	1 32319,67989	1 65856,85903	9,90189,10050,4209	10,12162,44416	55:12
	10,52432,07170	48,00030	38,29185	5,72949,0816	15,75733	
91	79768,91963,31401	1 32271,67959	1 65818,56718	9,90183,37101,3393	10,12146,68683	54:36
	10,52675,06172	47,97814	38,26912	5,73156,9899	15,75577	
90	79758,39288,25229	1 32223,70145	1 65780,29806	9,90177,63944,3494	10,12130,93106	54: 0
	10,52918,01969	47,95601	38,24642	5,73364,9529	15,75422	
89	79747,86370,23260	1 32175,74544	1 65742,05164	9,90171,90579,3965	10,12115,17684	53:24
	10,53160,94556	47,93388	38,22372	5,73572,9710	15,75266	
88	79737,33209,28704	1 32127,81156	1 65703,82792	9,90166,17006,4255	10,12099,42418	52:48
	10,53403,83937	47,91178	38,20105	5,73781,0439	15,75111	
87	79726,79805,44767	1 32079,89978	1 65665,62687	9,90160,43225,3816	10,12083,67307	52:12
	10,53646,70109	47,88970	38,17840	5,73989,1719	15,74956	
86	79716,26158,74658	1 32032,01008	1 65627,44847	9,90154,69236,2097	10,12067,92351	51:36
	10,53889,53070	47,86763	38,15576	5,74197,3548	15,74801	
85	79705,72269,21588	1 31984,14245	1 65589,29271	9,90148,95038,8549	10,12052,17550	51: 0
	10,54132,32822	47,84558	38,13315	5,74405,5929	15,74647	
84	79695,18136,88766	1 31936,29687	1 65551,15956	9,90143,20633,2620	10,12036,42903	50:24
	10,54375,09362	47,82355	38,11055	5,74613,8860	15,74492	
83	79684,63761,79404	1 31888,47332	1 65513,04901	9,90137,46019,3760	10,12020,68411	49:48
	10,54617,82691	47,80154	38,08796	5,74822,2342	15,74339	
82	79674,09143,96713	1 31840,67178	1 65474,96105	9,90131,71197,1418	10,12004,94072	49:12
	10,54860,52807	47,77955	38,06540	5,75030,6377	15,74184	
81	79663,54283,43906	1 31792,89223	1 65436,89565	9,90125,96166,5041	10,11989,19888	48:36
	10,55103,19710	47,75757	38,04285	5,75239,0962	15,74031	
80	79652,99180,24196	1 31745,13466	1 65398,85280	9,90120,20927,4079	10,11973,45857	48: 0
	10,55345,83398	47,73561	38,02033	5,75447,6101	15,73877	
79	79642,43834,40798	1 31697,39905	1 65360,83247	9,90114,45479,7978	10,11957,71980	47:24
	10,55588,43873	47,71368	37,99781	5,75656,1791	15,73725	
78	79631,88245,96925	1 31649,68537	1 65322,83466	9,90108,69823,6187	10,11941,98255	46:48
	10,55831,01131	47,69175	37,97533	5,75864,8036	15,73571	
77	79621,32414,95794	1 31601,99362	1 65284,85933	9,90102,93958,8151	10,11926,24684	46:12
	10,56073,55173	47,66985	37,95285	5,76073,4833	15,73419	
76	79610,76341,40621	1 31554,32377	1 65246,90648	9,90097,17885,3318	10,11910,51265	45:36
	10,56316,05999	47,64796	37,93039	5,76282,2184	15,73266	
75	79600,20025,34622	1 31506,67581	1 65208,97609	9,90091,41603,1134	10,11894,77999	45: 0
	10,56558,53606	47,62610	37,90795	5,76491,0089	15,73114	
74	79589,63466,81016	1 31459,04971	1 65171,06814	9,90085,65112,1045	10,11879,04885	44:24
	10,56800,97995	47,60425	37,88553	5,76699,8548	15,72961	
73	79579,06665,83021	1 31411,44546	1 65133,18261	9,90079,88412,2497	10,11863,31924	43:48
	10,57043,39166	47,58241	37,86313	5,76908,7562	15,72810	
72	79568,49622,43855	1 31363,86305	1 65095,31948	9,90074,11503,4935	10,11847,59114	43:12
	10,57285,77115	47,56060	37,84074	5,77117,7132	15,72659	
71	79557,92336,66740	1 31316,30245	1 65057,47874	9,90068,34385,7803	10,11831,86455	42:36
	10,57528,11844	47,53881	37,81837	5,77326,7256	15,72506	
70	79547,34808,54896	1 31268,76364	1 65019,66037	9,90062,57059,0547	10,11816,13949	42: 0
	10,57770,43352	47,51702	37,79602	5,77535,7937	15,72356	
69	79536,77038,11544	1 31221,24662	1 64981,86435	9,90056,79523,2610	10,11800,41593	41:24
	10,58012,71638	47,49527	37,77369	5,77744,9172	15,72205	
68	79526,19025,39906	1 31173,75135	1 64944,09066	9,90051,01778,3438	10,11784,69388	40:48
	10,58254,96701	47,47352	37,75138	5,77954,0966	15,72054	
67	79515,60770,43205	1 31126,27783	1 64906,33928	9,90045,23824,2472	10,11768,97334	40:12
	10,58497,18540	47,45181	37,72907	5,78163,3316	15,71903	

GRAD. 52.

37. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	60640,48261,19698	76262,36454	1 25761,47361	9,78276,26490,0397	9,88231,02666	19:48
	13,87716,79338	27,60771	16,74337	9,93740,1072	15,71903	
34	60654,35977,99036	76289,97225	1 25778,21698	9,78286,20230,1469	9,88246,74569	20:24
	13,87532,02964	27,61506	16,75165	9,93380,5111	15,71753	
35	60668,23510,02000	76317,58731	1 25794,96863	9,78296,13610,6580	9,88262,46322	21: 0
	13,87347,22362	27,62243	16,75996	9,93021,0795	15,71603	
36	60682,10857,24362	76345,20974	1 25811,72859	9,78306,06631,7375	9,88278,17925	21:36
	13,87162,37535	27,62978	16,76825	9,92661,8121	15,71454	
37	60695,98019,61897	76372,83952	1 25828,49684	9,78315,99293,5496	9,88293,89379	22:12
	13,86977,48483	27,63715	16,77656	9,92302,7090	15,71303	
38	60709,84997,10380	76400,47667	1 25845,27340	9,78325,91596,2586	9,88309,60682	22:48
	13,86792,55204	27,64453	16,78486	9,91943,7699	15,71154	
39	60723,71789,65584	76428,12120	1 25862,05826	9,78335,83540,0285	9,88325,31836	23:24
	13,86607,57703	27,65190	16,79318	9,91584,9947	15,71005	
40	60737,58397,23287	76455,77310	1 25878,85144	9,78345,75125,0232	9,88341,02841	24: 0
	13,86422,55976	27,65928	16,80150	9,91226,3834	15,70856	
41	60751,44819,79263	76483,43238	1 25895,65294	9,78355,66351,4066	9,88356,73697	24:36
	13,86237,50027	27,66666	16,80981	9,90867,9358	15,70707	
42	60765,31057,29290	76511,09904	1 25912,46275	9,78365,57219,3424	9,88372,44404	25:12
	13,86052,39855	27,67406	16,81815	9,90509,6515	15,70559	
43	60779,17109,69145	76538,77310	1 25929,28090	9,78375,47728,9939	9,88388,14963	25:48
	13,85867,25460	27,68145	16,82647	9,90151,5308	15,70410	
44	60793,02976,94605	76566,45455	1 25946,10737	9,78385,37880,5247	9,88403,85373	26:24
	13,85682,06845	27,68885	16,83481	9,89793,5732	15,70262	
45	60806,88659,01450	76594,14340	1 25962,94218	9,78395,27674,0979	9,88419,55635	27: 0
	13,85496,84008	27,69625	16,84315	9,89435,7789	15,70115	
46	60820,74155,85458	76621,83965	1 25979,78533	9,78405,17109,8768	9,88435,25750	27:36
	13,85311,56951	27,70366	16,85149	9,89078,1474	15,69966	
47	60834,59467,42409	76649,54331	1 25996,63682	9,78415,06188,0242	9,88450,95716	28:12
	13,85126,25673	27,71108	16,85984	9,88720,6790	15,69819	
48	60848,44593,68082	76677,25439	1 26013,49666	9,78424,94908,7032	9,88466,65535	28:48
	13,84940,90177	27,71849	16,86819	9,88363,3731	15,69672	
49	60862,29534,58259	76704,97288	1 26030,36485	9,78434,83272,0763	9,88482,35207	29:24
	13,84755,50462	27,72592	16,87655	9,88006,2299	15,69525	
50	60876,14290,08721	76732,69880	1 26047,24140	9,78444,71278,3062	9,88498,04732	30: 0
	13,84570,06528	27,73334	16,88491	9,87649,2492	15,69378	
51	60889,98860,15249	76760,43214	1 26064,12631	9,78454,58927,5554	9,88513,74110	30:36
	13,84384,58377	27,74078	16,89328	9,87292,4307	15,69232	
52	60903,83244,73626	76788,17292	1 26081,01959	9,78464,46219,9861	9,88529,43342	31:12
	13,84199,06008	27,74821	16,90164	9,86935,7745	15,69085	
53	60917,67443,79634	76815,92113	1 26097,92123	9,78474,33155,7606	9,88545,12427	31:48
	13,84013,49424	27,75565	16,91002	9,86579,2803	15,68939	
54	60931,51457,29058	76843,67678	1 26114,83125	9,78484,19735,0409	9,88560,81366	32:24
	13,83827,88623	27,76310	16,91840	9,86222,9481	15,68793	
55	60945,35285,17681	76871,43988	1 26131,74965	9,78494,05957,9890	9,88576,50159	33: 0
	13,83642,23607	27,77055	16,92678	9,85866,7776	15,68648	
56	60959,18927,41288	76899,21043	1 26148,67643	9,78503,91824,7666	9,88592,18807	33:36
	13,83456,54376	27,77801	16,93517	9,85510,7689	15,68502	
57	60973,02383,95664	76926,98844	1 26165,61160	9,78513,77335,5355	9,88607,87309	34:12
	13,83270,80931	27,78546	16,94356	9,85154,9217	15,68356	
58	60986,85654,76595	76954,77390	1 26182,55516	9,78523,62490,4572	9,88623,55665	34:48
	13,83085,03272	27,79293	16,95196	9,84799,2358	15,68212	
59	61000,68739,79867	76982,56683	1 26199,50712	9,78533,47289,6930	9,88639,23877	35:24
	13,82899,21401	27,80040	16,96035	9,84443,7113	15,68067	
60	61014,51639,01268	77010,36723	1 26216,46747	9,78543,31733,4043	9,88654,91944	36: 0
	13,82713,35315	27,80788	16,96877	9,84088,3478	15,67922	
61	61028,34352,36583	77038,17511	1 26233,43624	9,78553,15821,7521	9,88670,59866	36:36
	13,82527,45020	27,81535	16,97717	9,83733,1455	15,67778	
62	61042,16879,81603	77065,99046	1 26250,41341	9,78562,99554,8976	9,88686,27644	37:12
	13,82341,50511	27,82284	16,98558	9,83378,1039	15,67633	
63	61055,99221,32114	77093,81330	1 26267,39899	9,78572,82933,0015	9,88701,95277	37:48
	13,82155,51792	27,83032	16,99401	9,83023,2231	15,67490	
64	61069,81376,83906	77121,64362	1 26284,39300	9,78582,65956,2246	9,88717,62767	38:24
	13,81969,48864	27,83782	17,00243	9,82668,5030	15,67346	
65	61083,63346,32770	77149,48144	1 26301,39543	9,78592,48624,7276	9,88733,30113	39: 0
	13,81783,41725	27,84532	17,01085	9,82313,9434	15,67202	
66	61097,45129,74495	77177,32676	1 26318,40628	9,78602,30938,6710	9,88748,97315	39:36
	13,81597,30376	27,85282	17,01929	9,81959,5440	15,67060	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	79515,60770,43205	1 31126,27783	1 64906,33928	9,90045,23824,2472	10,11768,97334	40:12
	10,58497,18540	47,45181	37,72907	5,78163,3316	15,71903	
66	79505,02273,24665	1 31078,82602	1 64868,61021	9,90039,45660,9156	10,11753,25431	39:36
	10,58739,37155	47,43009	37,70680	5,78372,6223	15,71753	
65	79494,43533,87510	1 31031,39593	1 64830,90341	9,90033,67288,2933	10,11737,53678	39: 0
	10,58981,52544	47,40840	37,68453	5,78581,9687	15,71603	
64	79483,84552,34966	1 30983,98753	1 64793,21888	9,90027,88706,3246	10,11721,82075	38:24
	10,59223,64709	47,38674	37,66229	5,78791,3709	15,71454	
63	79473,25328,70257	1 30936,60079	1 64755,55659	9,90022,09914,9537	10,11706,10621	37:48
	10,59465,73646	47,36508	37,64006	5,79000,8290	15,71303	
62	79462,65862,96611	1 30889,23571	1 64717,91653	9,90016,30914,1247	10,11690,39318	37:12
	10,59707,79355	47,34344	37,61785	5,79210,3430	15,71154	
61	79452,06155,17256	1 30841,89227	1 64680,29868	9,90010,51703,7817	10,11674,68164	36:36
	10,59949,81838	47,32183	37,59566	5,79419,9127	15,71005	
60	79441,46205,35418	1 30794,57044	1 64642,70302	9,90004,72283,8690	10,11658,97159	36: 0
	10,60191,81091	47,30022	37,57349	5,79629,5384	15,70856	
59	79430,86013,54327	1 30747,27022	1 64605,12953	9,89998,92654,3306	10,11643,26303	35:24
	10,60433,77114	47,27865	37,55132	5,79839,2202	15,70707	
58	79420,25579,77213	1 30699,99157	1 64567,57821	9,89993,12815,1104	10,11627,55596	34:48
	10,60675,69908	47,25708	37,52919	5,80048,9578	15,70559	
57	79409,64904,07305	1 30652,73449	1 64530,04902	9,89987,32766,1526	10,11611,85037	34:12
	10,60917,59470	47,23553	37,50706	5,80258,7516	15,70410	
56	79399,03986,47835	1 30605,49896	1 64492,54196	9,89981,52507,4010	10,11596,14627	33:36
	10,61159,45800	47,21400	37,48496	5,80468,6014	15,70262	
55	79388,42827,02035	1 30558,28496	1 64455,05700	9,89975,72038,7996	10,11580,44365	33: 0
	10,61401,28899	47,19249	37,46287	5,80678,5072	15,70115	
54	79377,81425,73136	1 30511,09247	1 64417,59413	9,89969,91360,2924	10,11564,74250	32:24
	10,61643,08764	47,17099	37,44081	5,80888,4694	15,69966	
53	79367,19782,64372	1 30463,92148	1 64380,15332	9,89964,10471,8230	10,11549,04284	31:48
	10,61884,85394	47,14952	37,41874	5,81098,4875	15,69819	
52	79356,57897,78978	1 30416,77196	1 64342,73458	9,89958,29373,3355	10,11533,34465	31:12
	10,62126,58791	47,12806	37,39672	5,81308,5619	15,69672	
51	79345,95771,20187	1 30369,64390	1 64305,33786	9,89952,48064,7736	10,11517,64793	30:36
	10,62368,28952	47,10662	37,37469	5,81518,6926	15,69525	
50	79335,33402,91235	1 30322,53728	1 64267,96317	9,89946,66546,0810	10,11501,95268	30: 0
	10,62609,95876	47,08519	37,35269	5,81728,8796	15,69378	
49	79324,70792,95359	1 30275,45209	1 64230,61048	9,89940,84817,2014	10,11486,25890	29:24
	10,62851,59564	47,06378	37,33071	5,81939,1228	15,69232	
48	79314,07941,35795	1 30228,38831	1 64193,27977	9,89935,02878,0786	10,11470,56658	28:48
	10,63093,20015	47,04240	37,30874	5,82149,4225	15,69085	
47	79303,44848,15780	1 30181,34591	1 64155,97103	9,89929,20728,6561	10,11454,87573	28:12
	10,63334,77226	47,02102	37,28680	5,82359,7784	15,68939	
46	79292,81513,38554	1 30134,32489	1 64118,68423	9,89923,38368,8777	10,11439,18634	27:36
	10,63576,31199	46,99967	37,26486	5,82570,1909	15,68793	
45	79282,17937,07355	1 30087,32522	1 64081,41937	9,89917,55798,6868	10,11423,49841	27: 0
	10,63817,81931	46,97833	37,24295	5,82780,6597	15,68648	
44	79271,54119,25424	1 30040,34689	1 64044,17642	9,89911,73018,0271	10,11407,81193	26:24
	10,64059,29424	46,95701	37,22104	5,82991,1851	15,68502	
43	79260,90059,96000	1 29993,38988	1 64006,95538	9,89905,90026,8420	10,11392,12691	25:48
	10,64300,73675	46,93571	37,19917	5,83201,7670	15,68356	
42	79250,25759,22325	1 29946,45417	1 63969,75621	9,89900,06825,0750	10,11376,44335	25:12
	10,64542,14684	46,91443	37,17731	5,83412,4055	15,68212	
41	79239,61217,07641	1 29899,53974	1 63932,57890	9,89894,23412,6695	10,11360,76123	24:36
	10,64783,52450	46,89315	37,15546	5,83623,1006	15,68067	
40	79228,96433,55191	1 29852,64659	1 63895,42344	9,89888,39789,5689	10,11345,08056	24: 0
	10,65024,86973	46,87191	37,13363	5,83833,8522	15,67922	
39	79218,31408,68218	1 29805,77468	1 63858,28981	9,89882,55955,7167	10,11329,40134	23:24
	10,65266,18251	46,85067	37,11181	5,84044,6607	15,67778	
38	79207,66142,49967	1 29758,92401	1 63821,17800	9,89876,71911,0560	10,11313,72356	22:48
	10,65507,46284	46,82946	37,09003	5,84255,5257	15,67633	
37	79197,00635,03683	1 29712,09455	1 63784,08797	9,89870,87655,5303	10,11298,04723	22:12
	10,65748,71072	46,80825	37,06824	5,84466,4475	15,67490	
36	79186,34886,32611	1 29665,28630	1 63747,01973	9,89865,03189,0828	10,11282,37233	21:36
	10,65989,92614	46,78708	37,04648	5,84677,4262	15,67346	
35	79175,68896,39997	1 29618,49922	1 63709,97325	9,89859,18511,6566	10,11266,69887	21: 0
	10,66231,10907	46,76591	37,02474	5,84888,4616	15,67202	
34	79165,02665,29090	1 29571,73331	1 63672,94851	9,89853,33623,1950	10,11251,02685	20:24
	10,66472,25953	46,74477	37,00302	5,85099,5538	15,67060	

GRAD. 52.

37. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	61111,26727,04871	77205,17958	1 26335,42557	9,78612,12898,2150	9,88764,64375	40:12
	13,81411,14821	27,86032	17,02772	9,81605,3049	15,66916	
68	61125,08138,19692	77233,03990	1 26352,45329	9,78621,94503,5199	9,88780,31291	40:48
	13,81224,95055	27,86784	17,03616	9,81251,2259	15,66773	
69	61138,89363,14747	77260,90774	1 26369,48945	9,78631,75754,7458	9,88795,98064	41:24
	13,81038,71084	27,87535	17,04461	9,80897,3069	15,66630	
70	61152,70401,85831	77288,78309	1 26386,53406	9,78641,56652,0527	9,88811,64694	42: 0
	13,80852,42905	27,88288	17,05306	9,80543,5477	15,66488	
71	61166,51254,28736	77316,66597	1 26403,58712	9,78651,37195,6004	9,88827,31182	42:36
	13,80666,10520	27,89040	17,06151	9,80189,9483	15,66346	
72	61180,31920,39256	77344,55637	1 26420,64863	9,78661,17385,5487	9,88842,97528	43:12
	13,80479,73929	27,89794	17,06997	9,79836,5083	15,66204	
73	61194,12400,13185	77372,45431	1 26437,71860	9,78670,97222,0570	9,88858,63732	43:48
	13,80293,33132	27,90546	17,07844	9,79483,2279	15,66062	
74	61207,92693,46317	77400,35977	1 26454,79704	9,78680,76705,2849	9,88874,29794	44:24
	13,80106,88132	27,91301	17,08690	9,79130,1067	15,65920	
75	61221,72800,34449	77428,27278	1 26471,88394	9,78690,55835,3916	9,88889,95714	45: 0
	13,79920,38927	27,92056	17,09537	9,78777,1448	15,65779	
76	61235,52720,73376	77456,19334	1 26488,97931	9,78700,34612,5364	9,88905,61493	45:36
	13,79733,85519	27,92810	17,10385	9,78424,3419	15,65638	
77	61249,32454,58895	77484,12144	1 26506,08316	9,78710,13036,8783	9,88921,27131	46:12
	13,79547,27908	27,93566	17,11233	9,78071,6979	15,65497	
78	61263,12001,86803	77512,05710	1 26523,19549	9,78719,91108,5762	9,88936,92628	46:48
	13,79360,66094	27,94322	17,12081	9,77719,2128	15,65357	
79	61276,91362,52897	77540,00032	1 26540,31630	9,78729,68827,7890	9,88952,57985	47:24
	13,79174,00079	27,95078	17,12931	9,77366,8862	15,65216	
80	61290,70536,52976	77567,95110	1 26557,44561	9,78739,46194,6752	9,88968,23201	48: 0
	13,78987,29863	27,95836	17,13780	9,77014,7184	15,65075	
81	61304,49523,82839	77595,90946	1 26574,58341	9,78749,23209,3936	9,88983,88276	48:36
	13,78800,55445	27,96592	17,14629	9,76662,7088	15,64936	
82	61318,28324,38284	77623,87538	1 26591,72970	9,78758,99872,1024	9,88999,53212	49:12
	13,78613,76829	27,97351	17,15481	9,76310,8575	15,64795	
83	61332,06938,15113	77651,84889	1 26608,88451	9,78768,76182,9599	9,89015,18007	49:48
	13,78426,94011	27,98109	17,16330	9,75959,1645	15,64656	
84	61345,85365,09124	77679,82998	1 26626,04781	9,78778,52142,1244	9,89030,82663	50:24
	13,78240,06996	27,98867	17,17183	9,75607,6295	15,64517	
85	61359,63605,16120	77707,81865	1 26643,21964	9,78788,27749,7539	9,89046,47180	51: 0
	13,78053,15782	27,99627	17,18033	9,75256,2523	15,64377	
86	61373,41658,31902	77735,81492	1 26660,39997	9,78798,03006,0062	9,89062,11557	51:36
	13,77866,20370	28,00387	17,18886	9,74905,0329	15,64239	
87	61387,19524,52272	77763,81879	1 26677,58883	9,78807,77911,0391	9,89077,75796	52:12
	13,77679,20762	28,01147	17,19739	9,74553,9712	15,64099	
88	61400,97203,73034	77791,83026	1 26694,78622	9,78817,52465,0103	9,89093,39895	52:48
	13,77492,16955	28,01908	17,20591	9,74203,0670	15,63961	
89	61414,74695,89989	77819,84934	1 26711,99213	9,78827,26668,0773	9,89109,03856	53:24
	13,77305,08954	28,02669	17,21446	9,73852,3202	15,63823	
90	61428,52000,98943	77847,87603	1 26729,20659	9,78837,00520,3975	9,89124,67679	54: 0
	13,77117,96757	28,03430	17,22299	9,73501,7306	15,63685	
91	61442,29118,95700	77875,91033	1 26746,42958	9,78846,74022,1281	9,89140,31364	54:36
	13,76930,80364	28,04193	17,23153	9,73151,2983	15,63547	
92	61456,06049,76064	77903,95226	1 26763,66111	9,78856,47173,4264	9,89155,94911	55:12
	13,76743,59778	28,04955	17,24008	9,72801,0229	15,63409	
93	61469,82793,35842	77932,00181	1 26780,90119	9,78866,19974,4493	9,89171,58320	55:48
	13,76556,34998	28,05719	17,24864	9,72450,9043	15,63271	
94	61483,59349,70840	77960,05900	1 26798,14983	9,78875,92425,3536	9,89187,21591	56:24
	13,76369,06024	28,06482	17,25719	9,72100,9426	15,63135	
95	61497,35718,76864	77988,12382	1 26815,40702	9,78885,64526,2962	9,89202,84726	57: 0
	13,76181,72858	28,07247	17,26575	9,71751,1375	15,62997	
96	61511,11900,49722	78016,19629	1 26832,67277	9,78895,36277,4337	9,89218,47723	57:36
	13,75994,35500	28,08011	17,27433	9,71401,4889	15,62860	
97	61524,87894,85222	78044,27640	1 26849,94710	9,78905,07678,9226	9,89234,10583	58:12
	13,75806,93949	28,08776	17,28289	9,71051,9967	15,62724	
98	61538,63701,79171	78072,36416	1 26867,22999	9,78914,78730,9193	9,89249,73307	58:48
	13,75619,48209	28,09541	17,29147	9,70702,6607	15,62587	
99	61552,39321,27380	78100,45957	1 26884,52146	9,78924,49433,5800	9,89265,35894	59:24
	13,75431,98278	28,10308	17,30005	9,70353,4808	15,62452	
100	61566,14753,25658	78128,56265	1 26901,82151	9,78934,19787,0608	9,89280,98346	60: 0
	13,75244,44157	28,11074	17,30863	9,70004,4570	15,62315	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	79154,36193,03137	1 29524,98854	1 63635,94549	9,89847,48523,6412	10,11235,35625	19:48
	10,66713,37751	46,72363	36,98130	5,85310,7030	15,66916	
32	79143,69479,65386	1 29478,26491	1 63598,96419	9,89841,63212,9382	10,11219,68709	19:12
	10,66954,46299	46,70253	36,95961	5,85521,9091	15,66773	
31	79133,02525,19087	1 29431,56238	1 63562,00458	9,89835,77691,0291	10,11204,01936	18:36
	10,67195,51597	46,68142	36,93794	5,85733,1721	15,66630	
30	79122,35329,67490	1 29384,88096	1 63525,06664	9,89829,91957,8570	10,11188,35306	18: 0
	10,67436,53644	46,66035	36,91627	5,85944,4921	15,66488	
29	79111,67893,13846	1 29338,22061	1 63488,15037	9,89824,06013,3649	10,11172,68818	17:24
	10,67677,52439	46,63929	36,89464	5,86155,8692	15,66346	
28	79101,00215,61407	1 29291,58132	1 63451,25573	9,89818,19857,4957	10,11157,02472	16:48
	10,67918,47982	46,61824	36,87301	5,86367,3033	15,66204	
27	79090,32297,13425	1 29244,96308	1 63414,38272	9,89812,33490,1924	10,11141,36268	16:12
	10,68159,40273	46,59722	36,85140	5,86578,7945	15,66062	
26	79079,64137,73152	1 29198,36586	1 63377,53132	9,89806,46911,3979	10,11125,70206	15:36
	10,68400,29309	46,57620	36,82981	5,86790,3430	15,65920	
25	79068,95737,43843	1 29151,78966	1 63340,70151	9,89800,60121,0549	10,11110,04286	15: 0
	10,68641,15090	46,55522	36,80823	5,87001,9484	15,65779	
24	79058,27096,28753	1 29105,23444	1 63303,89328	9,89794,73119,1065	10,11094,38507	14:24
	10,68881,97617	46,53424	36,78668	5,87213,6112	15,65638	
23	79047,58214,31136	1 29058,70020	1 63267,10660	9,89788,85905,4953	10,11078,72869	13:48
	10,69122,76887	46,51327	36,76513	5,87425,3312	15,65497	
22	79036,89091,54249	1 29012,18693	1 63230,34147	9,89782,98480,1641	10,11063,07372	13:12
	10,69363,52901	46,49234	36,74361	5,87637,1084	15,65357	
21	79026,19728,01348	1 28965,69459	1 63193,59786	9,89777,10843,0557	10,11047,42015	12:36
	10,69604,25658	46,47141	36,72211	5,87848,9431	15,65216	
20	79015,50123,75690	1 28919,22318	1 63156,87575	9,89771,22994,1126	10,11031,76799	12: 0
	10,69844,95155	46,45050	36,70061	5,88060,8350	15,65075	
19	79004,80278,80535	1 28872,77268	1 63120,17514	9,89765,34933,2776	10,11016,11724	11:24
	10,70085,61394	46,42962	36,67914	5,88272,7843	15,64936	
18	78994,10193,19141	1 28826,34306	1 63083,49600	9,89759,46660,4933	10,11000,46788	10:48
	10,70326,24374	46,40874	36,65768	5,88484,7911	15,64795	
17	78983,39866,94767	1 28779,93432	1 63046,83832	9,89753,58175,7022	10,10984,81993	10:12
	10,70566,84093	46,38788	36,63625	5,88696,8554	15,64656	
16	78972,69300,10674	1 28733,54644	1 63010,20207	9,89747,69478,8468	10,10969,17337	9:36
	10,70807,40551	46,36704	36,61481	5,88908,9770	15,64517	
15	78961,98492,70123	1 28687,17940	1 62973,58726	9,89741,80569,8698	10,10953,52820	9: 0
	10,71047,93747	46,34621	36,59342	5,89121,1563	15,64377	
14	78951,27444,76376	1 28640,83319	1 62936,99384	9,89735,91448,7135	10,10937,88443	8:24
	10,71288,43680	46,32541	36,57202	5,89333,3932	15,64239	
13	78940,56156,32696	1 28594,50778	1 62900,42182	9,89730,02115,3203	10,10922,24204	7:48
	10,71528,90351	46,30462	36,55064	5,89545,6876	15,64099	
12	78929,84627,42345	1 28548,20316	1 62863,87118	9,89724,12569,6327	10,10906,60105	7:12
	10,71769,33757	46,28385	36,52929	5,89758,0397	15,63961	
11	78919,12858,08588	1 28501,91931	1 62827,34189	9,89718,22811,5930	10,10890,96144	6:36
	10,72009,73897	46,26309	36,50795	5,89970,4495	15,63823	
10	78908,40848,34691	1 28455,65622	1 62790,83394	9,89712,32841,1435	10,10875,32321	6: 0
	10,72250,10774	46,24235	36,48663	5,90182,9169	15,63685	
9	78897,68598,23917	1 28409,41387	1 62754,34731	9,89706,42658,2266	10,10859,68636	5:24
	10,72490,44383	46,22163	36,46531	5,90395,4422	15,63547	
8	78886,96107,79534	1 28363,19224	1 62717,88200	9,89700,52262,7844	10,10844,05089	4:48
	10,72730,74725	46,20093	36,44403	5,90608,0253	15,63409	
7	78876,23377,04809	1 28316,99131	1 62681,43797	9,89694,61654,7591	10,10828,41680	4:12
	10,72971,01801	46,18023	36,42275	5,90820,6661	15,63271	
6	78865,50406,03008	1 28270,81108	1 62645,01522	9,89688,70834,0930	10,10812,78409	3:36
	10,73211,25606	46,15956	36,40150	5,91033,3648	15,63135	
5	78854,77194,77402	1 28224,65152	1 62608,61372	9,89682,79800,7282	10,10797,15274	3: 0
	10,73451,46144	46,13891	36,38025	5,91246,1214	15,62997	
4	78844,03743,31258	1 28178,51261	1 62572,23347	9,89676,88554,6068	10,10781,52277	2:24
	10,73691,63411	46,11826	36,35903	5,91458,9360	15,62860	
3	78833,30051,67847	1 28132,39435	1 62535,87444	9,89670,97095,6708	10,10765,89417	1:48
	10,73931,77407	46,09764	36,33781	5,91671,8086	15,62724	
2	78822,56119,90440	1 28086,29671	1 62499,53663	9,89665,05423,8622	10,10750,26693	1:12
	10,74171,88132	46,07704	36,31663	5,91884,7390	15,62587	
1	78811,81948,02308	1 28040,21967	1 62463,22000	9,89659,13539,1232	10,10734,64106	0:36
	10,74411,95586	46,05645	36,29545	5,92097,7277	15,62452	
0	78801,07536,06722	1 27994,16322	1 62426,92455	9,89653,21441,3955	10,10719,01654	0: 0
	10,74651,99766	46,03588	36,27429	5,92310,7744	15,62315	

GRAD. 52.

38. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
0	61566,14753,25658	78128,56265	1 26901,82151	9,78934,19787,0608	9,89280,98346	0: 0
	13,75244,44157	28,11074	17,30863	9,70004,4570	15,62315	
1	61579,89997,69815	78156,67339	1 26919,13014	9,78943,89791,5178	9,89296,60661	0:36
	13,75056,85847	28,11841	17,31722	9,69655,5890	15,62179	
2	61593,65054,55662	78184,79180	1 26936,44736	9,78953,59447,1068	9,89312,22840	1:12
	13,74869,23348	28,12609	17,32582	9,69306,8768	15,62044	
3	61607,39923,79010	78212,91789	1 26953,77318	9,78963,28753,9836	9,89327,84884	1:48
	13,74681,56660	28,13377	17,33442	9,68958,3202	15,61909	
4	61621,14605,35670	78241,05166	1 26971,10760	9,78972,97712,3038	9,89343,46793	2:24
	13,74493,85787	28,14145	17,34302	9,68609,9191	15,61773	
5	61634,89099,21457	78269,19311	1 26988,45062	9,78982,66322,2229	9,89359,08566	3: 0
	13,74306,10725	28,14914	17,35162	9,68261,6734	15,61639	
6	61648,63405,32182	78297,34225	1 27005,80224	9,78992,34583,8963	9,89374,70205	3:36
	13,74118,31477	28,15684	17,36024	9,67913,5829	15,61504	
7	61662,37523,63659	78325,49909	1 27023,16248	9,79002,02497,4792	9,89390,31709	4:12
	13,73930,48044	28,16453	17,36886	9,67565,6475	15,61369	
8	61676,11454,11703	78353,66362	1 27040,53134	9,79011,70063,1267	9,89405,93078	4:48
	13,73742,60424	28,17224	17,37748	9,67217,8672	15,61235	
9	61689,85196,72127	78381,83586	1 27057,90882	9,79021,37280,9939	9,89421,54313	5:24
	13,73554,68622	28,17995	17,38610	9,66870,2417	15,61101	
10	61703,58751,40749	78410,01581	1 27075,29492	9,79031,04151,2356	9,89437,15414	6: 0
	13,73366,72633	28,18766	17,39474	9,66522,7710	15,60968	
11	61717,32118,13382	78438,20347	1 27092,68966	9,79040,70674,0066	9,89452,76382	6:36
	13,73178,72463	28,19538	17,40337	9,66175,4548	15,60833	
12	61731,05296,85845	78466,39885	1 27110,09303	9,79050,36849,4614	9,89468,37215	7:12
	13,72990,68109	28,20311	17,41201	9,65828,2933	15,60700	
13	61744,78287,53954	78494,60196	1 27127,50504	9,79060,02677,7547	9,89483,97915	7:48
	13,72802,59572	28,21083	17,42065	9,65481,2860	15,60567	
14	61758,51090,13526	78522,81279	1 27144,92569	9,79069,68159,0407	9,89499,58482	8:24
	13,72614,46854	28,21857	17,42930	9,65134,4331	15,60434	
15	61772,23704,60380	78551,03136	1 27162,35499	9,79079,33293,4738	9,89515,18916	9: 0
	13,72426,29954	28,22631	17,43796	9,64787,7342	15,60301	
16	61785,96130,90334	78579,25767	1 27179,79295	9,79088,98081,2080	9,89530,79217	9:36
	13,72238,08875	28,23405	17,44662	9,64441,1893	15,60169	
17	61799,68368,99209	78607,49172	1 27197,23957	9,79098,62522,3973	9,89546,39386	10:12
	13,72049,83614	28,24179	17,45528	9,64094,7984	15,60036	
18	61813,40418,82823	78635,73351	1 27214,69485	9,79108,26617,1957	9,89561,99422	10:48
	13,71861,54175	28,24955	17,46394	9,63748,5612	15,59904	
19	61827,12280,36998	78663,98306	1 27232,15879	9,79117,90365,7569	9,89577,59326	11:24
	13,71673,20556	28,25731	17,47262	9,63402,4776	15,59773	
20	61840,83953,57554	78692,24037	1 27249,63141	9,79127,53768,2345	9,89593,19099	12: 0
	13,71484,82759	28,26507	17,48130	9,63056,5475	15,59640	
21	61854,55438,40313	78720,50544	1 27267,11271	9,79137,16824,7820	9,89608,78739	12:36
	13,71296,40785	28,27284	17,48998	9,62710,7709	15,59509	
22	61868,26734,81098	78748,77828	1 27284,60269	9,79146,79535,5529	9,89624,38248	13:12
	13,71107,94632	28,28062	17,49866	9,62365,1475	15,59378	
23	61881,97842,75730	78777,05890	1 27302,10135	9,79156,41900,7004	9,89639,97626	13:48
	13,70919,44305	28,28839	17,50736	9,62019,6771	15,59247	
24	61895,68762,20035	78805,34729	1 27319,60871	9,79166,03920,3775	9,89655,56873	14:24
	13,70730,89799	28,29617	17,51605	9,61674,3600	15,59115	
25	61909,39493,09834	78833,64346	1 27337,12476	9,79175,65594,7375	9,89671,15988	15: 0
	13,70542,31119	28,30396	17,52475	9,61329,1956	15,58985	
26	61923,10035,40953	78861,94742	1 27354,64951	9,79185,26923,9331	9,89686,74973	15:36
	13,70353,68265	28,31175	17,53345	9,60984,1840	15,58855	
27	61936,80389,09218	78890,25917	1 27372,18296	9,79194,87908,1171	9,89702,33828	16:12
	13,70165,01235	28,31955	17,54217	9,60639,3250	15,58725	
28	61950,50554,10453	78918,57872	1 27389,72513	9,79204,48547,4421	9,89717,92553	16:48
	13,69976,30032	28,32736	17,55087	9,60294,6187	15,58594	
29	61964,20530,40485	78946,90608	1 27407,27600	9,79214,08842,0608	9,89733,51147	17:24
	13,69787,54655	28,33516	17,55960	9,59950,0647	15,58465	
30	61977,90317,95140	78975,24124	1 27424,83560	9,79223,68792,1255	9,89749,09612	18: 0
	13,69598,75107	28,34297	17,56832	9,59605,6629	15,58335	
31	61991,59916,70247	79003,58421	1 27442,40392	9,79233,28397,7884	9,89764,67947	18:36
	13,69409,91386	28,35079	17,57705	9,59261,4134	15,58205	
32	62005,29326,61633	79031,93500	1 27459,98097	9,79242,87659,2018	9,89780,26152	19:12
	13,69221,03493	28,35861	17,58579	9,58917,3159	15,58077	
33	62018,98547,65126	79060,29361	1 27477,56676	9,79252,46576,5177	9,89795,84229	19:48
	13,69032,11430	28,36644	17,59452	9,58573,3704	15,57947	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
100	78801,07536,06722	1 27994,16322	1 62426,92455	9,89653,21441,3955	10,10719,01654	60: 0
	10,74651,99766	46,03588	36,27429	5,92310,7744	15,62315	
99	78790,32884,06956	1 27948,12734	1 62390,65026	9,89647,29130,6211	10,10703,39339	59:24
	10,74892,00672	46,01532	36,25315	5,92523,8791	15,62179	
98	78779,57992,06284	1 27902,11202	1 62354,39711	9,89641,36606,7420	10,10687,77160	58:48
	10,75131,98305	45,99478	36,23202	5,92737,0421	15,62044	
97	78768,82860,07979	1 27856,11724	1 62318,16509	9,89635,43869,6999	10,10672,15116	58:12
	10,75371,92662	45,97425	36,21092	5,92950,2633	15,61909	
96	78758,07488,15317	1 27810,14299	1 62281,95417	9,89629,50919,4366	10,10656,53207	57:36
	10,75611,83743	45,95375	36,18981	5,93163,5426	15,61773	
95	78747,31876,31574	1 27764,18924	1 62245,76436	9,89623,57755,8940	10,10640,91434	57: 0
	10,75851,71549	45,93326	36,16874	5,93376,8803	15,61639	
94	78736,56024,60025	1 27718,25598	1 62209,59562	9,89617,64379,0137	10,10625,29795	56:24
	10,76091,56076	45,91279	36,14768	5,93590,2763	15,61504	
93	78725,79933,03949	1 27672,34319	1 62173,44794	9,89611,70788,7374	10,10609,68291	55:48
	10,76331,37326	45,89233	36,12664	5,93803,7305	15,61369	
92	78715,03601,66623	1 27626,45086	1 62137,32130	9,89605,76985,0069	10,10594,06922	55:12
	10,76571,15297	45,87189	36,10560	5,94017,2432	15,61235	
91	78704,27030,51326	1 27580,57897	1 62101,21570	9,89599,82967,7637	10,10578,45687	54:36
	10,76810,89989	45,85147	36,08460	5,94230,8143	15,61101	
90	78693,50219,61337	1 27534,72750	1 62065,13110	9,89593,88736,9494	10,10562,84586	54: 0
	10,77050,61400	45,83105	36,06359	5,94444,4438	15,60968	
89	78682,73168,99937	1 27488,89645	1 62029,06751	9,89587,94292,5056	10,10547,23618	53:24
	10,77290,29531	45,81067	36,04262	5,94658,1319	15,60833	
88	78671,95878,70406	1 27443,08578	1 61993,02489	9,89581,99634,3737	10,10531,62785	52:48
	10,77529,94380	45,79029	36,02165	5,94871,8784	15,60700	
87	78661,18348,76026	1 27397,29549	1 61957,00324	9,89576,04762,4953	10,10516,02085	52:12
	10,77769,55947	45,76994	36,00071	5,95085,6835	15,60567	
86	78650,40579,20079	1 27351,52555	1 61921,00253	9,89570,09676,8118	10,10500,41518	51:36
	10,78009,14230	45,74959	35,97977	5,95299,5473	15,60434	
85	78639,62570,05849	1 27305,77596	1 61885,02276	9,89564,14377,2645	10,10484,81084	51: 0
	10,78248,69230	45,72926	35,95886	5,95513,4696	15,60301	
84	78628,84321,36619	1 27260,04670	1 61849,06390	9,89558,18863,7949	10,10469,20783	50:24
	10,78488,20946	45,70896	35,93796	5,95727,4506	15,60169	
83	78618,05833,15673	1 27214,33774	1 61813,12594	9,89552,23136,3443	10,10453,60614	49:48
	10,78727,69375	45,68866	35,91708	5,95941,4904	15,60036	
82	78607,27105,46298	1 27168,64908	1 61777,20886	9,89546,27194,8539	10,10438,00578	49:12
	10,78967,14519	45,66839	35,89620	5,96155,5889	15,59904	
81	78596,48138,31779	1 27122,98069	1 61741,31266	9,89540,31039,2650	10,10422,40674	48:36
	10,79206,56377	45,64813	35,87536	5,96369,7462	15,59773	
80	78585,68931,75402	1 27077,33256	1 61705,43730	9,89534,34669,5188	10,10406,80901	48: 0
	10,79445,94947	45,62788	35,85452	5,96583,9623	15,59640	
79	78574,89485,80455	1 27031,70468	1 61669,58278	9,89528,38085,5565	10,10391,21261	47:24
	10,79685,30228	45,60765	35,83371	5,96798,2372	15,59509	
78	78564,09800,50227	1 26986,09703	1 61633,74907	9,89522,41287,3193	10,10375,61752	46:48
	10,79924,62221	45,58744	35,81290	5,97012,5711	15,59378	
77	78553,29875,88006	1 26940,50959	1 61597,93617	9,89516,44274,7482	10,10360,02374	46:12
	10,80163,90924	45,56725	35,79211	5,97226,9639	15,59247	
76	78542,49711,97082	1 26894,94234	1 61562,14406	9,89510,47047,7843	10,10344,43127	45:36
	10,80403,16337	45,54707	35,77135	5,97441,4157	15,59115	
75	78531,69308,80745	1 26849,39527	1 61526,37271	9,89504,49606,3686	10,10328,84012	45: 0
	10,80642,38459	45,52690	35,75059	5,97655,9265	15,58985	
74	78520,88666,42286	1 26803,86837	1 61490,62212	9,89498,51950,4421	10,10313,25027	44:24
	10,80881,57288	45,50676	35,72985	5,97870,4962	15,58855	
73	78510,07784,84998	1 26758,36161	1 61454,89227	9,89492,54079,9459	10,10297,66172	43:48
	10,81120,72826	45,48662	35,70912	5,98085,1253	15,58725	
72	78499,26664,12172	1 26712,87499	1 61419,18315	9,89486,55994,8206	10,10282,07447	43:12
	10,81359,85069	45,46651	35,68842	5,98299,8132	15,58594	
71	78488,45304,27103	1 26667,40848	1 61383,49473	9,89480,57695,0074	10,10266,48853	42:36
	10,81598,94020	45,44641	35,66773	5,98514,5605	15,58465	
70	78477,63705,33083	1 26621,96207	1 61347,82700	9,89474,59180,4469	10,10250,90388	42: 0
	10,81837,99675	45,42633	35,64705	5,98729,3668	15,58335	
69	78466,81867,33408	1 26576,53574	1 61312,17995	9,89468,60451,0801	10,10235,32053	41:24
	10,82077,02035	45,40627	35,62640	5,98944,2325	15,58205	
68	78455,99790,31373	1 26531,12947	1 61276,55355	9,89462,61506,8476	10,10219,73848	40:48
	10,82316,01098	45,38621	35,60575	5,99159,1574	15,58077	
67	78445,17474,30275	1 26485,74326	1 61240,94780	9,89456,62347,6902	10,10204,15771	40:12
	10,82554,96865	45,36618	35,58512	5,99374,1417	15,57947	

GRAD. 51.

38. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	62018,98547,65126	79060,29361	1 27477,56676	9,79252,46576,5177	9,89795,84229	19:48
	13,69032,11430	28,36644	17,59452	9,58573,3704	15,57947	
34	62032,67579,76556	79088,66005	1 27495,16128	9,79262,05149,8881	9,89811,42176	20:24
	13,68843,15196	28,37427	17,60326	9,58229,5765	15,57819	
35	62046,36422,91752	79117,03432	1 27512,76454	9,79271,63379,4646	9,89826,99995	21: 0
	13,68654,14794	28,38211	17,61201	9,57885,9344	15,57690	
36	62060,05077,06546	79145,41643	1 27530,37655	9,79281,21265,3990	9,89842,57685	21:36
	13,68465,10220	28,38996	17,62076	9,57542,4438	15,57562	
37	62073,73542,16766	79173,80639	1 27547,99731	9,79290,78807,8428	9,89858,15247	22:12
	13,68276,01480	28,39779	17,62952	9,57199,1048	15,57434	
38	62087,41818,18246	79202,20418	1 27565,62683	9,79300,36006,9476	9,89873,72681	22:48
	13,68086,88570	28,40565	17,63827	9,56855,9169	15,57306	
39	62101,09905,06816	79230,60983	1 27583,26510	9,79309,92862,8645	9,89889,29987	23:24
	13,67897,71494	28,41351	17,64705	9,56512,8802	15,57178	
40	62114,77802,78310	79259,02334	1 27600,91215	9,79319,49375,7447	9,89904,87165	24: 0
	13,67708,50251	28,42137	17,65581	9,56169,9948	15,57051	
41	62128,45511,28561	79287,44471	1 27618,56796	9,79329,05545,7395	9,89920,44216	24:36
	13,67519,24841	28,42924	17,66459	9,55827,2601	15,56923	
42	62142,13030,53402	79315,87395	1 27636,23255	9,79338,61372,9996	9,89936,01139	25:12
	13,67329,95266	28,43711	17,67337	9,55484,6764	15,56796	
43	62155,80360,48668	79344,31106	1 27653,90592	9,79348,16857,6760	9,89951,57935	25:48
	13,67140,61525	28,44499	17,68216	9,55142,2433	15,56670	
44	62169,47501,10193	79372,75605	1 27671,58808	9,79357,71999,9193	9,89967,14605	26:24
	13,66951,23620	28,45287	17,69094	9,54799,9608	15,56543	
45	62183,14452,33813	79401,20892	1 27689,27902	9,79367,26799,8801	9,89982,71148	27: 0
	13,66761,81551	28,46075	17,69974	9,54457,8288	15,56416	
46	62196,81214,15364	79429,66967	1 27706,97876	9,79376,81257,7089	9,89998,27564	27:36
	13,66572,35319	28,46865	17,70854	9,54115,8472	15,56290	
47	62210,47786,50683	79458,13832	1 27724,68730	9,79386,35373,5561	9,90013,83854	28:12
	13,66382,84923	28,47654	17,71734	9,53774,0158	15,56165	
48	62224,14169,35606	79486,61486	1 27742,40464	9,79395,89147,5719	9,90029,40019	28:48
	13,66193,30367	28,48445	17,72615	9,53432,3344	15,56038	
49	62237,80362,65973	79515,09931	1 27760,13079	9,79405,42579,9063	9,90044,96057	29:24
	13,66003,71647	28,49236	17,73496	9,53090,8031	15,55913	
50	62251,46366,37620	79543,59167	1 27777,86575	9,79414,95670,7094	9,90060,51970	30: 0
	13,65814,08766	28,50026	17,74378	9,52749,4217	15,55787	
51	62265,12180,46386	79572,09193	1 27795,60953	9,79424,48420,1311	9,90076,07757	30:36
	13,65624,41727	28,50819	17,75260	9,52408,1899	15,55662	
52	62278,77804,88113	79600,60012	1 27813,36213	9,79434,00828,3210	9,90091,63419	31:12
	13,65434,70525	28,51610	17,76143	9,52067,1079	15,55538	
53	62292,43239,58638	79629,11622	1 27831,12356	9,79443,52895,4289	9,90107,18957	31:48
	13,65244,95166	28,52404	17,77026	9,51726,1753	15,55412	
54	62306,08484,53804	79657,64026	1 27848,89382	9,79453,04621,6042	9,90122,74369	32:24
	13,65055,15646	28,53197	17,77910	9,51385,3922	15,55288	
55	62319,73539,69450	79686,17223	1 27866,67292	9,79462,56006,9964	9,90138,29657	33: 0
	13,64865,31970	28,53990	17,78794	9,51044,7583	15,55164	
56	62333,38405,01420	79714,71213	1 27884,46086	9,79472,07051,7547	9,90153,84821	33:36
	13,64675,44135	28,54785	17,79679	9,50704,2735	15,55039	
57	62347,03080,45555	79743,25998	1 27902,25765	9,79481,57756,0282	9,90169,39860	34:12
	13,64485,52144	28,55579	17,80564	9,50363,9378	15,54916	
58	62360,67565,97699	79771,81577	1 27920,06329	9,79491,08119,9660	9,90184,94776	34:48
	13,64295,55996	28,56375	17,81449	9,50023,7510	15,54792	
59	62374,31861,53695	79800,37952	1 27937,87778	9,79500,58143,7170	9,90200,49568	35:24
	13,64105,55691	28,57170	17,82336	9,49683,7131	15,54668	
60	62387,95967,09386	79828,95122	1 27955,70114	9,79510,07827,4301	9,90216,04236	36: 0
	13,63915,51233	28,57967	17,83222	9,49343,8238	15,54545	
61	62401,59882,60619	79857,53089	1 27973,53336	9,79519,57171,2539	9,90231,58781	36:36
	13,63725,42618	28,58763	17,84109	9,49004,0830	15,54422	
62	62415,23608,03237	79886,11852	1 27991,37445	9,79529,06175,3369	9,90247,13203	37:12
	13,63535,29850	28,59561	17,84996	9,48664,4907	15,54299	
63	62428,87143,33087	79914,71413	1 28009,22441	9,79538,54839,8276	9,90262,67502	37:48
	13,63345,12929	28,60359	17,85885	9,48325,0468	15,54177	
64	62442,50488,46016	79943,31772	1 28027,08326	9,79548,03164,8744	9,90278,21679	38:24
	13,63154,91854	28,61157	17,86773	9,47985,7510	15,54054	
65	62456,13643,37870	79971,92929	1 28044,95099	9,79557,51150,6254	9,90293,75733	39: 0
	13,62964,66627	28,61955	17,87662	9,47646,6033	15,53932	
66	62469,76608,04497	80000,54884	1 28062,82761	9,79566,98797,2287	9,90309,29665	39:36
	13,62774,37247	28,62755	17,88551	9,47307,6037	15,53810	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	78445,17474,30275	1 26485,74326	1 61240,94780	9,89456,62347,6902	10,10204,15771	40:12
	10,82554,96865	45,36618	35,58512	5,99374,1417	15,57947	
66	78434,34919,33410	1 26440,37708	1 61205,36268	9,89450,62973,5485	10,10188,57824	39:36
	10,82793,89334	45,34616	35,56451	5,99589,1851	15,57819	
65	78423,52125,44076	1 26395,03092	1 61169,79817	9,89444,63384,3634	10,10173,00005	39: 0
	10,83032,78505	45,32615	35,54391	5,99804,2882	15,57690	
64	78412,69092,65571	1 26349,70477	1 61134,25426	9,89438,63580,0752	10,10157,42315	38:24
	10,83271,64376	45,30617	35,52334	6,00019,4505	15,57562	
63	78401,85821,01195	1 26304,39860	1 61098,73092	9,89432,63560,6247	10,10141,84753	37:48
	10,83510,46947	45,28620	35,50277	6,00234,6724	15,57434	
62	78391,02310,54248	1 26259,11240	1 61063,22815	9,89426,63325,9523	10,10126,27319	37:12
	10,83749,26219	45,26625	35,48222	6,00449,9537	15,57306	
61	78380,18561,28029	1 26213,84615	1 61027,74593	9,89420,62875,9986	10,10110,70013	36:36
	10,83988,02189	45,24631	35,46169	6,00665,2946	15,57178	
60	78369,34573,25840	1 26168,59984	1 60992,28424	9,89414,62210,7040	10,10095,12835	36: 0
	10,84226,74857	45,22638	35,44117	6,00880,6950	15,57051	
59	78358,50346,50983	1 26123,37346	1 60956,84307	9,89408,61330,0090	10,10079,55784	35:24
	10,84465,44222	45,20648	35,42067	6,01096,1551	15,56923	
58	78347,65881,06761	1 26078,16698	1 60921,42240	9,89402,60233,8539	10,10063,98861	34:48
	10,84704,10283	45,18659	35,40018	6,01311,6748	15,56796	
57	78336,81176,96478	1 26032,98039	1 60886,02222	9,89396,58922,1791	10,10048,42065	34:12
	10,84942,73041	45,16671	35,37971	6,01527,2542	15,56670	
56	78325,96234,23437	1 25987,81368	1 60850,64251	9,89390,57394,9249	10,10032,85395	33:36
	10,85181,32493	45,14685	35,35926	6,01742,8934	15,56543	
55	78315,11052,90944	1 25942,66683	1 60815,28325	9,89384,55652,0315	10,10017,28852	33: 0
	10,85419,88640	45,12701	35,33882	6,01958,5922	15,56416	
54	78304,25633,02304	1 25897,53982	1 60779,94443	9,89378,53693,4393	10,10001,72436	32:24
	10,85658,41480	45,10719	35,31839	6,02174,3510	15,56290	
53	78293,39974,60824	1 25852,43263	1 60744,62604	9,89372,51519,0883	10,09986,16146	31:48
	10,85896,91014	45,08737	35,29799	6,02390,1695	15,56165	
52	78282,54077,69810	1 25807,34526	1 60709,32805	9,89366,49128,9188	10,09970,59981	31:12
	10,86135,37240	45,06757	35,27760	6,02606,0479	15,56038	
51	78271,67942,32570	1 25762,27769	1 60674,05045	9,89360,46522,8709	10,09955,03943	30:36
	10,86373,80156	45,04780	35,25722	6,02821,9862	15,55913	
50	78260,81568,52414	1 25717,22989	1 60638,79323	9,89354,43700,8847	10,09939,48030	30: 0
	10,86612,19764	45,02803	35,23685	6,03037,9845	15,55787	
49	78249,94956,32650	1 25672,20186	1 60603,55638	9,89348,40662,9002	10,09923,92243	29:24
	10,86850,56062	45,00828	35,21652	6,03254,0428	15,55662	
48	78239,08105,76588	1 25627,19358	1 60568,33986	9,89342,37408,8574	10,09908,36581	28:48
	10,87088,89049	44,98855	35,19618	6,03470,1612	15,55538	
47	78228,21016,87539	1 25582,20503	1 60533,14368	9,89336,33938,6962	10,09892,81043	28:12
	10,87327,18724	44,96883	35,17587	6,03686,3395	15,55412	
46	78217,33689,68815	1 25537,23620	1 60497,96781	9,89330,30252,3567	10,09877,25631	27:36
	10,87565,45087	44,94914	35,15557	6,03902,5780	15,55288	
45	78206,46124,23728	1 25492,28706	1 60462,81224	9,89324,26349,7787	10,09861,70343	27: 0
	10,87803,68138	44,92944	35,13528	6,04118,8766	15,55164	
44	78195,58320,55590	1 25447,35762	1 60427,67696	9,89318,22230,9021	10,09846,15179	26:24
	10,88041,87874	44,90978	35,11502	6,04335,2355	15,55039	
43	78184,70278,67716	1 25402,44784	1 60392,56194	9,89312,17895,6666	10,09830,60140	25:48
	10,88280,04297	44,89012	35,09477	6,04551,6545	15,54916	
42	78173,81998,63419	1 25357,55772	1 60357,46717	9,89306,13344,0121	10,09815,05224	25:12
	10,88518,17405	44,87048	35,07453	6,04768,1338	15,54792	
41	78162,93480,46014	1 25312,68724	1 60322,39264	9,89300,08575,8783	10,09799,50432	24:36
	10,88756,27195	44,85086	35,05430	6,04984,6734	15,54668	
40	78152,04724,18819	1 25267,83638	1 60287,33834	9,89294,03591,2049	10,09783,95764	24: 0
	10,88994,33671	44,83125	35,03410	6,05201,2734	15,54545	
39	78141,15729,85148	1 25223,00513	1 60252,30424	9,89287,98389,9315	10,09768,41219	23:24
	10,89232,36828	44,81166	35,01391	6,05417,9336	15,54422	
38	78130,26497,48320	1 25178,19347	1 60217,29033	9,89281,92971,9979	10,09752,86797	22:48
	10,89470,36668	44,79208	34,99374	6,05634,6544	15,54299	
37	78119,37027,11652	1 25133,40139	1 60182,29659	9,89275,87337,3435	10,09737,32498	22:12
	10,89708,33189	44,77253	34,97357	6,05851,4356	15,54177	
36	78108,47318,78463	1 25088,62886	1 60147,32302	9,89269,81485,9079	10,09721,78321	21:36
	10,89946,26390	44,75297	34,95343	6,06068,2773	15,54054	
35	78097,57372,52073	1 25043,87589	1 60112,36959	9,89263,75417,6306	10,09706,24267	21: 0
	10,90184,16272	44,73345	34,93330	6,06285,1794	15,53932	
34	78086,67188,35801	1 24999,14244	1 60077,43629	9,89257,69132,4512	10,09690,70335	20:24
	10,90422,02832	44,71394	34,91318	6,06502,1423	15,53810	

GRAD. 51.

38. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	62483,39382,41744	80029,17639	1 28080,71312	9,79576,46104,8324	9,90324,83475	40:12
	13,62584,03718	28,63555	17,89442	9,46968,7518	15,53687	
68	62497,01966,45462	80057,81194	1 28098,60754	9,79585,93073,5842	9,90340,37162	40:48
	13,62393,66037	28,64356	17,90332	9,46630,0477	15,53567	
69	62510,64360,11499	80086,45550	1 28116,51086	9,79595,39703,6319	9,90355,90729	41:24
	13,62203,24206	28,65156	17,91222	9,46291,4913	15,53445	
70	62524,26563,35705	80115,10706	1 28134,42308	9,79604,85995,1232	9,90371,44174	42: 0
	13,62012,78226	28,65957	17,92114	9,45953,0823	15,53323	
71	62537,88576,13931	80143,76663	1 28152,34422	9,79614,31948,2055	9,90386,97497	42:36
	13,61822,28096	28,66759	17,93006	9,45614,8207	15,53203	
72	62551,50398,42027	80172,43422	1 28170,27428	9,79623,77563,0262	9,90402,50700	43:12
	13,61631,73819	28,67562	17,93898	9,45276,7064	15,53082	
73	62565,12030,15846	80201,10984	1 28188,21326	9,79633,22839,7326	9,90418,03782	43:48
	13,61441,15393	28,68365	17,94791	9,44938,7393	15,52961	
74	62578,73471,31239	80229,79349	1 28206,16117	9,79642,67778,4719	9,90433,56743	44:24
	13,61250,52820	28,69168	17,95685	9,44600,9192	15,52841	
75	62592,34721,84059	80258,48517	1 28224,11802	9,79652,12379,3911	9,90449,09584	45: 0
	13,61059,86101	28,69972	17,96578	9,44263,2459	15,52721	
76	62605,95781,70160	80287,18489	1 28242,08380	9,79661,56642,6370	9,90464,62305	45:36
	13,60869,15236	28,70776	17,97472	9,43925,7196	15,52601	
77	62619,56650,85396	80315,89265	1 28260,05852	9,79671,00568,3566	9,90480,14906	46:12
	13,60678,40225	28,71581	17,98367	9,43588,3399	15,52481	
78	62633,17329,25621	80344,60846	1 28278,04219	9,79680,44156,6965	9,90495,67387	46:48
	13,60487,61070	28,72387	17,99263	9,43251,1067	15,52361	
79	62646,77816,86691	80373,33233	1 28296,03482	9,79689,87407,8032	9,90511,19748	47:24
	13,60296,77770	28,73193	18,00158	9,42914,0201	15,52243	
80	62660,38113,64461	80402,06426	1 28314,03640	9,79699,30321,8233	9,90526,71991	48: 0
	13,60105,90326	28,73999	18,01054	9,42577,0797	15,52123	
81	62673,98219,54787	80430,80425	1 28332,04694	9,79708,72898,9030	9,90542,24114	48:36
	13,59914,98739	28,74807	18,01951	9,42240,2857	15,52004	
82	62687,58134,53526	80459,55232	1 28350,06645	9,79718,15139,1887	9,90557,76118	49:12
	13,59724,03010	28,75613	18,02849	9,41903,6376	15,51885	
83	62701,17858,56536	80488,30845	1 28368,09494	9,79727,57042,8263	9,90573,28003	49:48
	13,59533,03139	28,76422	18,03746	9,41567,1357	15,51767	
84	62714,77391,59675	80517,07267	1 28386,13240	9,79736,98609,9620	9,90588,79770	50:24
	13,59341,99127	28,77231	18,04644	9,41230,7795	15,51649	
85	62728,36733,58802	80545,84498	1 28404,17884	9,79746,39840,7415	9,90604,31419	51: 0
	13,59150,90973	28,78039	18,05542	9,40894,5692	15,51530	
86	62741,95884,49775	80574,62537	1 28422,23426	9,79755,80735,3107	9,90619,82949	51:36
	13,58959,78679	28,78849	18,06442	9,40558,5044	15,51413	
87	62755,54844,28454	80603,41386	1 28440,29868	9,79765,21293,8151	9,90635,34362	52:12
	13,58768,62246	28,79659	18,07342	9,40222,5853	15,51295	
88	62769,13612,90700	80632,21045	1 28458,37210	9,79774,61516,4004	9,90650,85657	52:48
	13,58577,41675	28,80470	18,08242	9,39886,8115	15,51178	
89	62782,72190,32375	80661,01515	1 28476,45452	9,79784,01403,2119	9,90666,36835	53:24
	13,58386,16963	28,81281	18,09142	9,39551,1831	15,51060	
90	62796,30576,49338	80689,82796	1 28494,54594	9,79793,40954,3950	9,90681,87895	54: 0
	13,58194,88115	28,82092	18,10043	9,39215,6998	15,50943	
91	62809,88771,37453	80718,64888	1 28512,64637	9,79802,80170,0948	9,90697,38838	54:36
	13,58003,55129	28,82905	18,10945	9,38880,3616	15,50827	
92	62823,46774,92582	80747,47793	1 28530,75582	9,79812,19050,4564	9,90712,89665	55:12
	13,57812,18006	28,83718	18,11847	9,38545,1683	15,50709	
93	62837,04587,10588	80776,31511	1 28548,87429	9,79821,57595,6247	9,90728,40374	55:48
	13,57620,76747	28,84530	18,12750	9,38210,1200	15,50594	
94	62850,62207,87335	80805,16041	1 28567,00179	9,79830,95805,7447	9,90743,90968	56:24
	13,57429,31354	28,85345	18,13653	9,37875,2163	15,50477	
95	62864,19637,18689	80834,01386	1 28585,13832	9,79840,33680,9610	9,90759,41445	57: 0
	13,57237,81824	28,86158	18,14556	9,37540,4573	15,50361	
96	62877,76875,00513	80862,87544	1 28603,28388	9,79849,71221,4183	9,90774,91806	57:36
	13,57046,28160	28,86974	18,15461	9,37205,8427	15,50245	
97	62891,33921,28673	80891,74518	1 28621,43849	9,79859,08427,2610	9,90790,42051	58:12
	13,56854,70363	28,87789	18,16364	9,36871,3725	15,50130	
98	62904,90775,99036	80920,62307	1 28639,60213	9,79868,45298,6335	9,90805,92181	58:48
	13,56663,08432	28,88604	18,17270	9,36537,0467	15,50014	
99	62918,47439,07468	80949,50911	1 28657,77483	9,79877,81835,6802	9,90821,42195	59:24
	13,56471,42369	28,89421	18,18176	9,36202,8649	15,49899	
100	62932,03910,49837	80978,40332	1 28675,95659	9,79887,18038,5451	9,90836,92094	60: 0
	13,56279,72174	28,90238	18,19081	9,35868,8273	15,49784	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	78075,76766,32969	1 24954,42850	1 60042,52311	9,89251,62630,3089	10,09675,16525	19:48
	10,90659,86071	44,69443	34,89309	6,06719,1656	15,53687	
32	78064,86106,46898	1 24909,73407	1 60007,63002	9,89245,55911,1433	10,09659,62838	19:12
	10,90897,65987	44,67495	34,87300	6,06936,2497	15,53567	
31	78053,95208,80911	1 24865,05912	1 59972,75702	9,89239,48974,8936	10,09644,09271	18:36
	10,91135,42581	44,65548	34,85293	6,07153,3943	15,53445	
30	78043,04073,38330	1 24820,40364	1 59937,90409	9,89233,41821,4993	10,09628,55826	18: 0
	10,91373,15851	44,63604	34,83288	6,07370,5998	15,53323	
29	78032,12700,22479	1 24775,76760	1 59903,07121	9,89227,34450,8995	10,09613,02503	17:24
	10,91610,85795	44,61659	34,81285	6,07587,8660	15,53203	
28	78021,21089,36684	1 24731,15101	1 59868,25836	9,89221,26863,0335	10,09597,49300	16:48
	10,91848,52416	44,59717	34,79282	6,07805,1930	15,53082	
27	78010,29240,84268	1 24686,55384	1 59833,46554	9,89215,19057,8405	10,09581,96218	16:12
	10,92086,15709	44,57777	34,77281	6,08022,5808	15,52961	
26	77999,37154,68559	1 24641,97607	1 59798,69273	9,89209,11035,2597	10,09566,43257	15:36
	10,92323,75677	44,55837	34,75282	6,08240,0296	15,52841	
25	77988,44830,92882	1 24597,41770	1 59763,93991	9,89203,02795,2301	10,09550,90416	15: 0
	10,92561,32317	44,53900	34,73284	6,08457,5392	15,52721	
24	77977,52269,60565	1 24552,87870	1 59729,20707	9,89196,94337,6909	10,09535,37695	14:24
	10,92798,85628	44,51964	34,71288	6,08675,1097	15,52601	
23	77966,59470,74937	1 24508,35906	1 59694,49419	9,89190,85662,5812	10,09519,85094	13:48
	10,93036,35611	44,50030	34,69293	6,08892,7414	15,52481	
22	77955,66434,39326	1 24463,85876	1 59659,80126	9,89184,76769,8398	10,09504,32613	13:12
	10,93273,82265	44,48097	34,67300	6,09110,4340	15,52361	
21	77944,73160,57061	1 24419,37779	1 59625,12826	9,89178,67659,4058	10,09488,80252	12:36
	10,93511,25587	44,46165	34,65309	6,09328,1876	15,52243	
20	77933,79649,31474	1 24374,91614	1 59590,47517	9,89172,58331,2182	10,09473,28009	12: 0
	10,93748,65579	44,44235	34,63318	6,09546,0025	15,52123	
19	77922,85900,65895	1 24330,47379	1 59555,84199	9,89166,48785,2157	10,09457,75886	11:24
	10,93986,02240	44,42307	34,61330	6,09763,8784	15,52004	
18	77911,91914,63655	1 24286,05072	1 59521,22869	9,89160,39021,3373	10,09442,23882	10:48
	10,94223,35567	44,40380	34,59342	6,09981,8155	15,51885	
17	77900,97691,28088	1 24241,64692	1 59486,63527	9,89154,29039,5218	10,09426,71997	10:12
	10,94460,65562	44,38455	34,57357	6,10199,8139	15,51767	
16	77890,03230,62526	1 24197,26237	1 59452,06170	9,89148,18839,7079	10,09411,20230	9:36
	10,94697,92222	44,36531	34,55373	6,10417,8736	15,51649	
15	77879,08532,70304	1 24152,89706	1 59417,50797	9,89142,08421,8343	10,09395,68581	9: 0
	10,94935,15548	44,34609	34,53390	6,10635,9945	15,51530	
14	77868,13597,54756	1 24108,55097	1 59382,97407	9,89135,97785,8398	10,09380,17051	8:24
	10,95172,35539	44,32688	34,51408	6,10854,1768	15,51413	
13	77857,18425,19217	1 24064,22409	1 59348,45999	9,89129,86931,6630	10,09364,65638	7:48
	10,95409,52194	44,30768	34,49429	6,11072,4204	15,51295	
12	77846,23015,67023	1 24019,91641	1 59313,96570	9,89123,75859,2426	10,09349,14343	7:12
	10,95646,65511	44,28851	34,47451	6,11290,7256	15,51178	
11	77835,27369,01512	1 23975,62790	1 59279,49119	9,89117,64568,5170	10,09333,63165	6:36
	10,95883,75491	44,26935	34,45475	6,11509,0921	15,51060	
10	77824,31485,26021	1 23931,35855	1 59245,03644	9,89111,53059,4249	10,09318,12105	6: 0
	10,96120,82133	44,25020	34,43499	6,11727,5202	15,50943	
9	77813,35364,43888	1 23887,10835	1 59210,60145	9,89105,41331,9047	10,09302,61162	5:24
	10,96357,85436	44,23107	34,41525	6,11946,0098	15,50827	
8	77802,39006,58452	1 23842,87728	1 59176,18620	9,89099,29385,8949	10,09287,10335	4:48
	10,96594,85400	44,21196	34,39554	6,12164,5610	15,50709	
7	77791,42411,73052	1 23798,66532	1 59141,79066	9,89093,17221,3339	10,09271,59626	4:12
	10,96831,82022	44,19285	34,37582	6,12383,1738	15,50594	
6	77780,45579,91030	1 23754,47247	1 59107,41484	9,89087,04838,1601	10,09256,09032	3:36
	10,97068,75304	44,17376	34,35613	6,12601,8483	15,50477	
5	77769,48511,15726	1 23710,29871	1 59073,05871	9,89080,92236,3118	10,09240,58555	3: 0
	10,97305,65244	44,15470	34,33646	6,12820,5844	15,50361	
4	77758,51205,50482	1 23666,14401	1 59038,72225	9,89074,79415,7274	10,09225,08194	2:24
	10,97542,51841	44,13563	34,31679	6,13039,3824	15,50245	
3	77747,53662,98641	1 23622,00838	1 59004,40546	9,89068,66376,3450	10,09209,57949	1:48
	10,97779,35095	44,11660	34,29715	6,13258,2420	15,50130	
2	77736,55883,63546	1 23577,89178	1 58970,10831	9,89062,53118,1030	10,09194,07819	1:12
	10,98016,15005	44,09757	34,27751	6,13477,1636	15,50014	
1	77725,57867,48541	1 23533,79421	1 58935,83080	9,89056,39640,9394	10,09178,57805	0:36
	10,98252,91570	44,07856	34,25789	6,13696,1469	15,49899	
0	77714,59614,56971	1 23489,71565	1 58901,57291	9,89050,25944,7925	10,09163,07906	0: 0
	10,98489,64790	44,05956	34,23829	6,13915,1922	15,49784	

GRAD. 51.

39. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
0	62932,03910,49837	80978,40332	1 28675,95659	9,79887,18038,5451	9,90836,92094	0: 0
	13,56279,72174	28,90238	18,19081	9,35868,8273	15,49784	
1	62945,60190,22011	81007,30570	1 28694,14740	9,79896,53907,3724	9,90852,41878	0:36
	13,56087,97847	28,91055	18,19989	9,35534,9335	15,49669	
2	62959,16278,19858	81036,21625	1 28712,34729	9,79905,89442,3059	9,90867,91547	1:12
	13,55896,19389	28,91873	18,20895	9,35201,1837	15,49555	
3	62972,72174,39247	81065,13498	1 28730,55624	9,79915,24643,4896	9,90883,41102	1:48
	13,55704,36802	28,92691	18,21802	9,34867,5774	15,49440	
4	62986,27878,76049	81094,06189	1 28748,77426	9,79924,59511,0670	9,90898,90542	2:24
	13,55512,50083	28,93511	18,22711	9,34534,1147	15,49326	
5	62999,83391,26132	81122,99700	1 28767,00137	9,79933,94045,1817	9,90914,39868	3: 0
	13,55320,59237	28,94330	18,23619	9,34200,7957	15,49212	
6	63013,38711,85369	81151,94030	1 28785,23756	9,79943,28245,9774	9,90929,89080	3:36
	13,55128,64262	28,95150	18,24528	9,33867,6199	15,49099	
7	63026,93840,49631	81180,89180	1 28803,48284	9,79952,62113,5973	9,90945,38179	4:12
	13,54936,65158	28,95970	18,25438	9,33534,5873	15,48984	
8	63040,48777,14789	81209,85150	1 28821,73722	9,79961,95648,1846	9,90960,87163	4:48
	13,54744,61927	28,96791	18,26348	9,33201,6980	15,48872	
9	63054,03521,76716	81238,81941	1 28840,00070	9,79971,28849,8826	9,90976,36035	5:24
	13,54552,54570	28,97614	18,27258	9,32868,9517	15,48758	
10	63067,58074,31286	81267,79555	1 28858,27328	9,79980,61718,8343	9,90991,84793	6: 0
	13,54360,43087	28,98435	18,28169	9,32536,3482	15,48646	
11	63081,12434,74373	81296,77990	1 28876,55497	9,79989,94255,1825	9,91007,33439	6:36
	13,54168,27477	28,99258	18,29081	9,32203,8876	15,48532	
12	63094,66603,01850	81325,77248	1 28894,84578	9,79999,26459,0701	9,91022,81971	7:12
	13,53976,07742	29,00080	18,29993	9,31871,5697	15,48420	
13	63108,20579,09592	81354,77328	1 28913,14571	9,80008,58330,6398	9,91038,30391	7:48
	13,53783,83884	29,00905	18,30905	9,31539,3943	15,48308	
14	63121,74362,93476	81383,78233	1 28931,45476	9,80017,89870,0341	9,91053,78699	8:24
	13,53591,55902	29,01729	18,31818	9,31207,3615	15,48196	
15	63135,27954,49378	81412,79962	1 28949,77294	9,80027,21077,3956	9,91069,26895	9: 0
	13,53399,23795	29,02554	18,32732	9,30875,4709	15,48084	
16	63148,81353,73173	81441,82516	1 28968,10026	9,80036,51952,8665	9,91084,74979	9:36
	13,53206,87567	29,03378	18,33646	9,30543,7227	15,47972	
17	63162,34560,60740	81470,85894	1 28986,43672	9,80045,82496,5892	9,91100,22951	10:12
	13,53014,47216	29,04205	18,34560	9,30212,1165	15,47860	
18	63175,87575,07956	81499,90099	1 29004,78232	9,80055,12708,7057	9,91115,70811	10:48
	13,52822,02744	29,05031	18,35475	9,29880,6525	15,47750	
19	63189,40397,10700	81528,95130	1 29023,13707	9,80064,42589,3582	9,91131,18561	11:24
	13,52629,54151	29,05858	18,36391	9,29549,3302	15,47638	
20	63202,93026,64851	81558,00988	1 29041,50098	9,80073,72138,6884	9,91146,66199	12: 0
	13,52437,01437	29,06685	18,37307	9,29218,1498	15,47527	
21	63216,45463,66288	81587,07673	1 29059,87405	9,80083,01356,8382	9,91162,13726	12:36
	13,52244,44604	29,07513	18,38223	9,28887,1111	15,47417	
22	63229,97708,10892	81616,15186	1 29078,25628	9,80092,30243,9493	9,91177,61143	13:12
	13,52051,83652	29,08342	18,39141	9,28556,2140	15,47306	
23	63243,49759,94544	81645,23528	1 29096,64769	9,80101,58800,1633	9,91193,08449	13:48
	13,51859,18580	29,09171	18,40058	9,28225,4583	15,47196	
24	63257,01619,13124	81674,32699	1 29115,04827	9,80110,87025,6216	9,91208,55645	14:24
	13,51666,49392	29,10000	18,40976	9,27894,8440	15,47086	
25	63270,53285,62516	81703,42699	1 29133,45803	9,80120,14920,4656	9,91224,02731	15: 0
	13,51473,76085	29,10830	18,41894	9,27564,3709	15,46976	
26	63284,04759,38601	81732,53529	1 29151,87697	9,80129,42484,8365	9,91239,49707	15:36
	13,51280,98662	29,11661	18,42814	9,27234,0389	15,46866	
27	63297,56040,37263	81761,65190	1 29170,30511	9,80138,69718,8754	9,91254,96573	16:12
	13,51088,17123	29,12492	18,43733	9,26903,8481	15,46757	
28	63311,07128,54386	81790,77682	1 29188,74244	9,80147,96622,7235	9,91270,43330	16:48
	13,50895,31467	29,13323	18,44653	9,26573,7981	15,46647	
29	63324,58023,85853	81819,91005	1 29207,18897	9,80157,23196,5216	9,91285,89977	17:24
	13,50702,41697	29,14156	18,45573	9,26243,8889	15,46539	
30	63338,08726,27550	81849,05161	1 29225,64470	9,80166,49440,4105	9,91301,36516	18: 0
	13,50509,47813	29,14988	18,46495	9,25914,1203	15,46429	
31	63351,59235,75363	81878,20149	1 29244,10965	9,80175,75354,5308	9,91316,82945	18:36
	13,50316,49814	29,15822	18,47417	9,25584,4925	15,46321	
32	63365,09552,25177	81907,35971	1 29262,58382	9,80185,00939,0233	9,91332,29266	19:12
	13,50123,47702	29,16655	18,48338	9,25255,0050	15,46213	
33	63378,59675,72879	81936,52626	1 29281,06720	9,80194,26194,0283	9,91347,75479	19:48
	13,49930,41477	29,17490	18,49261	9,24925,6579	15,46104	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
100	77714,59614,56971	1 23489,71565	1 58901,57291	9,89050,25944,7925	10,09163,07906	60: 0
	10,98489,64790	44,05956	34,23829	6,13915,1922	15,49784	
99	77703,61124,92181	1 23445,65609	1 58867,33462	9,89044,12029,6003	10,09147,58122	59:24
	10,98726,34663	44,04058	34,21871	6,14134,2994	15,49669	
98	77692,62398,57518	1 23401,61551	1 58833,11591	9,89037,97895,3009	10,09132,08453	58:48
	10,98963,01190	44,02161	34,19912	6,14353,4685	15,49555	
97	77681,63435,56328	1 23357,59390	1 58798,91679	9,89031,83541,8324	10,09116,58898	58:12
	10,99199,64369	44,00266	34,17957	6,14572,6998	15,49440	
96	77670,64235,91959	1 23313,59124	1 58764,73722	9,89025,68969,1326	10,09101,09458	57:36
	10,99436,24199	43,98373	34,16003	6,14791,9929	15,49326	
95	77659,64799,67760	1 23269,60751	1 58730,57719	9,89019,54177,1397	10,09085,60132	57: 0
	10,99672,80681	43,96480	34,14049	6,15011,3484	15,49212	
94	77648,65126,87079	1 23225,64271	1 58696,43670	9,89013,39165,7913	10,09070,10920	56:24
	10,99909,33813	43,94590	34,12098	6,15230,7658	15,49099	
93	77637,65217,53266	1 23181,69681	1 58662,31572	9,89007,23935,0255	10,09054,61821	55:48
	11,00145,83594	43,92700	34,10148	6,15450,2455	15,48984	
92	77626,65071,69672	1 23137,76981	1 58628,21424	9,89001,08484,7800	10,09039,12837	55:12
	11,00382,30024	43,90813	34,08199	6,15669,7873	15,48872	
91	77615,64689,39648	1 23093,86168	1 58594,13225	9,88994,92814,9927	10,09023,63965	54:36
	11,00618,73102	43,88927	34,06253	6,15889,3915	15,48758	
90	77604,64070,66546	1 23049,97241	1 58560,06972	9,88988,76925,6012	10,09008,15207	54: 0
	11,00855,12827	43,87041	34,04306	6,16109,0578	15,48646	
89	77593,63215,53719	1 23006,10200	1 58526,02666	9,88982,60816,5434	10,08992,66561	53:24
	11,01091,49200	43,85159	34,02362	6,16328,7867	15,48532	
88	77582,62124,04519	1 22962,25041	1 58492,00304	9,88976,44487,7567	10,08977,18029	52:48
	11,01327,82217	43,83277	34,00420	6,16548,5777	15,48420	
87	77571,60796,22302	1 22918,41764	1 58457,99884	9,88970,27939,1790	10,08961,69609	52:12
	11,01564,11880	43,81396	33,98478	6,16768,4313	15,48308	
86	77560,59232,10422	1 22874,60368	1 58424,01406	9,88964,11170,7477	10,08946,21301	51:36
	11,01800,38188	43,79517	33,96539	6,16988,3473	15,48196	
85	77549,57431,72234	1 22830,80851	1 58390,04867	9,88957,94182,4004	10,08930,73105	51: 0
	11,02036,61138	43,77641	33,94600	6,17208,3258	15,48084	
84	77538,55395,11096	1 22787,03210	1 58356,10267	9,88951,76974,0746	10,08915,25021	50:24
	11,02272,80733	43,75764	33,92663	6,17428,3668	15,47972	
83	77527,53122,30363	1 22743,27446	1 58322,17604	9,88945,59545,7078	10,08899,77049	49:48
	11,02508,96970	43,73890	33,90728	6,17648,4704	15,47860	
82	77516,50613,33393	1 22699,53556	1 58288,26876	9,88939,41897,2374	10,08884,29189	49:12
	11,02745,09847	43,72017	33,88794	6,17868,6366	15,47750	
81	77505,47868,23546	1 22655,81539	1 58254,38082	9,88933,24028,6008	10,08868,81439	48:36
	11,02981,19366	43,70145	33,86861	6,18088,8655	15,47638	
80	77494,44887,04180	1 22612,11394	1 58220,51221	9,88927,05939,7353	10,08853,33801	48: 0
	11,03217,25526	43,68276	33,84930	6,18309,1571	15,47527	
79	77483,41669,78654	1 22568,43118	1 58186,66291	9,88920,87630,5782	10,08837,86274	47:24
	11,03453,28323	43,66407	33,83000	6,18529,5113	15,47417	
78	77472,38216,50331	1 22524,76711	1 58152,83291	9,88914,69101,0669	10,08822,38857	46:48
	11,03689,27761	43,64539	33,81072	6,18749,9284	15,47306	
77	77461,34527,22570	1 22481,12172	1 58119,02219	9,88908,50351,1385	10,08806,91551	46:12
	11,03925,23836	43,62675	33,79146	6,18970,4084	15,47196	
76	77450,30601,98734	1 22437,49497	1 58085,23073	9,88902,31380,7301	10,08791,44355	45:36
	11,04161,16548	43,60810	33,77220	6,19190,9510	15,47086	
75	77439,26440,82186	1 22393,88687	1 58051,45853	9,88896,12189,7791	10,08775,97269	45: 0
	11,04397,05897	43,58947	33,75296	6,19411,5567	15,46976	
74	77428,22043,76289	1 22350,29740	1 58017,70557	9,88889,92778,2224	10,08760,50293	44:24
	11,04632,91882	43,57086	33,73374	6,19632,2253	15,46866	
73	77417,17410,84407	1 22306,72654	1 57983,97183	9,88883,73145,9971	10,08745,03427	43:48
	11,04868,74502	43,55227	33,71452	6,19852,9568	15,46757	
72	77406,12542,09905	1 22263,17427	1 57950,25731	9,88877,53293,0403	10,08729,56670	43:12
	11,05104,53755	43,53368	33,69533	6,20073,7514	15,46647	
71	77395,07437,56150	1 22219,64059	1 57916,56198	9,88871,33219,2889	10,08714,10023	42:36
	11,05340,29644	43,51511	33,67615	6,20294,6091	15,46539	
70	77384,02097,26506	1 22176,12548	1 57882,88583	9,88865,12924,6798	10,08698,63484	42: 0
	11,05576,02164	43,49655	33,65698	6,20515,5298	15,46429	
69	77372,96521,24342	1 22132,62893	1 57849,22885	9,88858,92409,1500	10,08683,17055	41:24
	11,05811,71317	43,47802	33,63783	6,20736,5136	15,46321	
68	77361,90709,53025	1 22089,15091	1 57815,59102	9,88852,71672,6364	10,08667,70734	40:48
	11,06047,37102	43,45949	33,61869	6,20957,5607	15,46213	
67	77350,84662,15923	1 22045,69142	1 57781,97233	9,88846,50715,0757	10,08652,24521	40:12
	11,06282,99517	43,44099	33,59956	6,21178,6709	15,46104	

GRAD. 50.

39. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	63378,59675,72879	81936,52626	1 29281,06720	9,80194,26194,0283	9,91347,75479	19:48
	13,49930,41477	29,17490	18,49261	9,24925,6579	15,46104	
34	63392,09606,14356	81965,70116	1 29299,55981	9,80203,51119,6862	9,91363,21583	20:24
	13,49737,31141	29,18325	18,50184	9,24596,4511	15,45997	
35	63405,59343,45497	81994,88441	1 29318,06165	9,80212,75716,1373	9,91378,67580	21: 0
	13,49544,16693	29,19160	18,51108	9,24267,3844	15,45888	
36	63419,08887,62190	82024,07601	1 29336,57273	9,80221,99983,5217	9,91394,13468	21:36
	13,49350,98133	29,19996	18,52032	9,23938,4578	15,45781	
37	63432,58238,60323	82053,27597	1 29355,09305	9,80231,23921,9795	9,91409,59249	22:12
	13,49157,75464	29,20832	18,52956	9,23609,6710	15,45673	
38	63446,07396,35787	82082,48429	1 29373,62261	9,80240,47531,6505	9,91425,04922	22:48
	13,48964,48684	29,21669	18,53882	9,23281,0242	15,45566	
39	63459,56360,84471	82111,70098	1 29392,16143	9,80249,70812,6747	9,91440,50488	23:24
	13,48771,17797	29,22507	18,54807	9,22952,5169	15,45460	
40	63473,05132,02268	82140,92605	1 29410,70950	9,80258,93765,1916	9,91455,95948	24: 0
	13,48577,82799	29,23345	18,55733	9,22624,1493	15,45352	
41	63486,53709,85067	82170,15950	1 29429,26683	9,80268,16389,3409	9,91471,41300	24:36
	13,48384,43694	29,24184	18,56660	9,22295,9212	15,45246	
42	63500,02094,28761	82199,40134	1 29447,83343	9,80277,38685,2621	9,91486,86546	25:12
	13,48191,00481	29,25023	18,57588	9,21967,8325	15,45139	
43	63513,50285,29242	82228,65157	1 29466,40931	9,80286,60653,0946	9,91502,31685	25:48
	13,47997,53162	29,25862	18,58515	9,21639,8830	15,45033	
44	63526,98282,82404	82257,91019	1 29484,99446	9,80295,82292,9776	9,91517,76718	26:24
	13,47804,01737	29,26703	18,59443	9,21312,0727	15,44927	
45	63540,46086,84141	82287,17722	1 29503,58889	9,80305,03605,0503	9,91533,21645	27: 0
	13,47610,46205	29,27544	18,60372	9,20984,4014	15,44822	
46	63553,93697,30346	82316,45266	1 29522,19261	9,80314,24589,4517	9,91548,66467	27:36
	13,47416,86570	29,28384	18,61301	9,20656,8692	15,44716	
47	63567,41114,16916	82345,73650	1 29540,80562	9,80323,45246,3209	9,91564,11183	28:12
	13,47223,22828	29,29227	18,62231	9,20329,4757	15,44610	
48	63580,88337,39744	82375,02877	1 29559,42793	9,80332,65575,7966	9,91579,55793	28:48
	13,47029,54984	29,30069	18,63161	9,20002,2209	15,44505	
49	63594,35366,94728	82404,32946	1 29578,05954	9,80341,85578,0175	9,91595,00298	29:24
	13,46835,83036	29,30912	18,64092	9,19675,1048	15,44400	
50	63607,82202,77764	82433,63858	1 29596,70046	9,80351,05253,1223	9,91610,44698	30: 0
	13,46642,06985	29,31756	18,65023	9,19348,1273	15,44296	
51	63621,28844,84749	82462,95614	1 29615,35069	9,80360,24601,2496	9,91625,88994	30:36
	13,46448,26833	29,32599	18,65955	9,19021,2880	15,44190	
52	63634,75293,11582	82492,28213	1 29634,01024	9,80369,43622,5376	9,91641,33184	31:12
	13,46254,42579	29,33444	18,66888	9,18694,5871	15,44087	
53	63648,21547,54161	82521,61657	1 29652,67912	9,80378,62317,1247	9,91656,77271	31:48
	13,46060,54223	29,34290	18,67820	9,18368,0244	15,43982	
54	63661,67608,08384	82550,95947	1 29671,35732	9,80387,80685,1491	9,91672,21253	32:24
	13,45866,61768	29,35134	18,68753	9,18041,5998	15,43878	
55	63675,13474,70152	82580,31081	1 29690,04485	9,80396,98726,7489	9,91687,65131	33: 0
	13,45672,65213	29,35981	18,69688	9,17715,3131	15,43775	
56	63688,59147,35365	82609,67062	1 29708,74173	9,80406,16442,0620	9,91703,08906	33:36
	13,45478,64558	29,36828	18,70622	9,17389,1643	15,43671	
57	63702,04625,99923	82639,03890	1 29727,44795	9,80415,33831,2263	9,91718,52577	34:12
	13,45284,59806	29,37675	18,71556	9,17063,1533	15,43567	
58	63715,49910,59729	82668,41565	1 29746,16351	9,80424,50894,3796	9,91733,96144	34:48
	13,45090,50954	29,38523	18,72493	9,16737,2799	15,43465	
59	63728,95001,10683	82697,80088	1 29764,88844	9,80433,67631,6595	9,91749,39609	35:24
	13,44896,38007	29,39372	18,73428	9,16411,5441	15,43361	
60	63742,39897,48690	82727,19460	1 29783,62272	9,80442,84043,2036	9,91764,82970	36: 0
	13,44702,20961	29,40220	18,74364	9,16085,9457	15,43259	
61	63755,84599,69651	82756,59680	1 29802,36636	9,80452,00129,1493	9,91780,26229	36:36
	13,44507,99820	29,41070	18,75302	9,15760,4847	15,43156	
62	63769,29107,69471	82786,00750	1 29821,11938	9,80461,15889,6340	9,91795,69385	37:12
	13,44313,74583	29,41920	18,76239	9,15435,1608	15,43053	
63	63782,73421,44054	82815,42670	1 29839,88177	9,80470,31324,7948	9,91811,12438	37:48
	13,44119,45251	29,42770	18,77177	9,15109,9741	15,42952	
64	63796,17540,89305	82844,85440	1 29858,65354	9,80479,46434,7689	9,91826,55390	38:24
	13,43925,11825	29,43621	18,78116	9,14784,9244	15,42850	
65	63809,61466,01130	82874,29061	1 29877,43470	9,80488,61219,6933	9,91841,98240	39: 0
	13,43730,74305	29,44474	18,79055	9,14460,0116	15,42747	
66	63823,05196,75435	82903,73535	1 29896,22525	9,80497,75679,7049	9,91857,40987	39:36
	13,43536,32692	29,45325	18,79994	9,14135,2356	15,42647	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	77350,84662,15923	1 22045,69142	1 57781,97233	9,88846,50715,0757	10,08652,24521	40:12
	11,06282,99517	43,44099	33,59956	6,21178,6709	15,46104	
66	77339,78379,16406	1 22002,25043	1 57748,37277	9,88840,29536,4048	10,08636,78417	39:36
	11,06518,58562	43,42248	33,58046	6,21399,8445	15,45997	
65	77328,71860,57844	1 21958,82795	1 57714,79231	9,88834,08136,5603	10,08621,32420	39: 0
	11,06754,14237	43,40401	33,56136	6,21621,0813	15,45888	
64	77317,65106,43607	1 21915,42394	1 57681,23095	9,88827,86515,4790	10,08605,86532	38:24
	11,06989,66540	43,38553	33,54227	6,21842,3815	15,45781	
63	77306,58116,77067	1 21872,03841	1 57647,68868	9,88821,64673,0975	10,08590,40751	37:48
	11,07225,15471	43,36709	33,52321	6,22063,7450	15,45673	
62	77295,50891,61596	1 21828,67132	1 57614,16547	9,88815,42609,3525	10,08574,95078	37:12
	11,07460,61030	43,34864	33,50416	6,22285,1720	15,45566	
61	77284,43431,00566	1 21785,32268	1 57580,66131	9,88809,20324,1805	10,08559,49512	36:36
	11,07696,03215	43,33022	33,48511	6,22506,6625	15,45460	
60	77273,35734,97351	1 21741,99246	1 57547,17620	9,88802,97817,5180	10,08544,04052	36: 0
	11,07931,42025	43,31182	33,46610	6,22728,2164	15,45352	
59	77262,27803,55326	1 21698,68064	1 57513,71010	9,88796,75089,3016	10,08528,58700	35:24
	11,08166,77462	43,29341	33,44708	6,22949,8339	15,45246	
58	77251,19636,77864	1 21655,38723	1 57480,26302	9,88790,52139,4677	10,08513,13454	34:48
	11,08402,09521	43,27504	33,42808	6,23171,5150	15,45139	
57	77240,11234,68343	1 21612,11219	1 57446,83494	9,88784,28967,9527	10,08497,68315	34:12
	11,08637,38205	43,25667	33,40910	6,23393,2596	15,45033	
56	77229,02597,30138	1 21568,85552	1 57413,42584	9,88778,05574,6931	10,08482,23282	33:36
	11,08872,63511	43,23831	33,39014	6,23615,0681	15,44927	
55	77217,93724,66627	1 21525,61721	1 57380,03570	9,88771,81959,6250	10,08466,78355	33: 0
	11,09107,85440	43,21998	33,37118	6,23836,9401	15,44822	
54	77206,84616,81187	1 21482,39723	1 57346,66452	9,88765,58122,6849	10,08451,33533	32:24
	11,09343,03991	43,20166	33,35224	6,24058,8760	15,44716	
53	77195,75273,77196	1 21439,19557	1 57313,31228	9,88759,34063,8089	10,08435,88817	31:48
	11,09578,19161	43,18334	33,33331	6,24280,8756	15,44610	
52	77184,65695,58035	1 21396,01223	1 57279,97897	9,88753,09782,9333	10,08420,44207	31:12
	11,09813,30952	43,16505	33,31440	6,24502,9390	15,44505	
51	77173,55882,27083	1 21352,84718	1 57246,66457	9,88746,85279,9943	10,08404,99702	30:36
	11,10048,39363	43,14677	33,29550	6,24725,0664	15,44400	
50	77162,45833,87720	1 21309,70041	1 57213,36907	9,88740,60554,9279	10,08389,55302	30: 0
	11,10283,44392	43,12850	33,27662	6,24947,2576	15,44296	
49	77151,35550,43328	1 21266,57191	1 57180,09245	9,88734,35607,6703	10,08374,11006	29:24
	11,10518,46038	43,11025	33,25775	6,25169,5128	15,44190	
48	77140,25031,97290	1 21223,46166	1 57146,83470	9,88728,10438,1575	10,08358,66816	28:48
	11,10753,44302	43,09202	33,23889	6,25391,8321	15,44087	
47	77129,14278,52988	1 21180,36964	1 57113,59581	9,88721,85046,3254	10,08343,22729	28:12
	11,10988,39183	43,07378	33,22005	6,25614,2152	15,43982	
46	77118,03290,13805	1 21137,29586	1 57080,37576	9,88715,59432,1102	10,08327,78747	27:36
	11,11223,30679	43,05558	33,20123	6,25836,6626	15,43878	
45	77106,92066,83126	1 21094,24028	1 57047,17453	9,88709,33595,4476	10,08312,34869	27: 0
	11,11458,18790	43,03738	33,18241	6,26059,1740	15,43775	
44	77095,80608,64336	1 21051,20290	1 57013,99212	9,88703,07536,2736	10,08296,91094	26:24
	11,11693,03515	43,01920	33,16360	6,26281,7496	15,43671	
43	77084,68915,60821	1 21008,18370	1 56980,82852	9,88696,81254,5240	10,08281,47423	25:48
	11,11927,84855	43,00104	33,14483	6,26504,3894	15,43567	
42	77073,56987,75966	1 20965,18266	1 56947,68369	9,88690,54750,1346	10,08266,03856	25:12
	11,12162,62806	42,98288	33,12605	6,26727,0934	15,43465	
41	77062,44825,13160	1 20922,19978	1 56914,55764	9,88684,28023,0412	10,08250,60391	24:36
	11,12397,37371	42,96474	33,10729	6,26949,8618	15,43361	
40	77051,32427,75789	1 20879,23504	1 56881,45035	9,88678,01073,1794	10,08235,17030	24: 0
	11,12632,08546	42,94661	33,08855	6,27172,6945	15,43259	
39	77040,19795,67243	1 20836,28843	1 56848,36180	9,88671,73900,4849	10,08219,73771	23:24
	11,12866,76332	42,92851	33,06981	6,27395,5914	15,43156	
38	77029,06928,90911	1 20793,35992	1 56815,29199	9,88665,46504,8935	10,08204,30615	22:48
	11,13101,40729	42,91041	33,05110	6,27618,5529	15,43053	
37	77017,93827,50182	1 20750,44951	1 56782,24089	9,88659,18886,3406	10,08188,87562	22:12
	11,13336,01734	42,89232	33,03240	6,27841,5788	15,42952	
36	77006,80491,48448	1 20707,55719	1 56749,20849	9,88652,91044,7618	10,08173,44610	21:36
	11,13570,59348	42,87426	33,01371	6,28064,6691	15,42850	
35	76995,66920,89100	1 20664,68293	1 56716,19478	9,88646,62980,0927	10,08158,01760	21: 0
	11,13805,13571	42,85620	32,99503	6,28287,8241	15,42747	
34	76984,53115,75529	1 20621,82673	1 56683,19975	9,88640,34692,2686	10,08142,59013	20:24
	11,14039,64399	42,83816	32,97637	6,28511,0436	15,42647	

GRAD. 50.

39. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	63836,48733,08127	82933,18860	1 29915,02519	9,80506,89814,9405	9,91872,83634	40:12
	13,43341,86985	29,46178	18,80935	9,13810,5963	15,42545	
68	63849,92074,95112	82962,65038	1 29933,83454	9,80516,03625,5368	9,91888,26179	40:48
	13,43147,37188	29,47031	18,81875	9,13486,0936	15,42443	
69	63863,35222,32300	82992,12069	1 29952,65329	9,80525,17111,6304	9,91903,68622	41:24
	13,42952,83298	29,47886	18,82816	9,13161,7274	15,42343	
70	63876,78175,15598	83021,59955	1 29971,48145	9,80534,30273,3578	9,91919,10965	42: 0
	13,42758,25317	29,48740	18,83759	9,12837,4975	15,42242	
71	63890,20933,40915	83051,08695	1 29990,31904	9,80543,43110,8553	9,91934,53207	42:36
	13,42563,63247	29,49594	18,84700	9,12513,4039	15,42142	
72	63903,63497,04162	83080,58289	1 30009,16604	9,80552,55624,2592	9,91949,95349	43:12
	13,42368,97087	29,50451	18,85643	9,12189,4465	15,42041	
73	63917,05866,01249	83110,08740	1 30028,02247	9,80561,67813,7057	9,91965,37390	43:48
	13,42174,26837	29,51306	18,86586	9,11865,6251	15,41941	
74	63930,48040,28086	83139,60046	1 30046,88833	9,80570,79679,3308	9,91980,79331	44:24
	13,41979,52499	29,52163	18,87530	9,11541,9397	15,41841	
75	63943,90019,80585	83169,12209	1 30065,76363	9,80579,91221,2705	9,91996,21172	45: 0
	13,41784,74073	29,53020	18,88474	9,11218,3902	15,41741	
76	63957,31804,54658	83198,65229	1 30084,64837	9,80589,02439,6607	9,92011,62913	45:36
	13,41589,91560	29,53878	18,89420	9,10894,9764	15,41642	
77	63970,73394,46218	83228,19107	1 30103,54257	9,80598,13334,6371	9,92027,04555	46:12
	13,41395,04960	29,54736	18,90364	9,10571,6981	15,41543	
78	63984,14789,51178	83257,73843	1 30122,44621	9,80607,23906,3352	9,92042,46098	46:48
	13,41200,14275	29,55595	18,91311	9,10248,5555	15,41443	
79	63997,55989,65453	83287,29438	1 30141,35932	9,80616,34154,8907	9,92057,87541	47:24
	13,41005,19502	29,56454	18,92257	9,09925,5483	15,41344	
80	64010,96994,84955	83316,85892	1 30160,28189	9,80625,44080,4390	9,92073,28885	48: 0
	13,40810,20647	29,57315	18,93204	9,09602,6765	15,41246	
81	64024,37805,05602	83346,43207	1 30179,21393	9,80634,53683,1155	9,92088,70131	48:36
	13,40615,17705	29,58175	18,94151	9,09279,9397	15,41147	
82	64037,78420,23307	83376,01382	1 30198,15544	9,80643,62963,0552	9,92104,11278	49:12
	13,40420,10681	29,59035	18,95099	9,08957,3382	15,41049	
83	64051,18840,33988	83405,60417	1 30217,10643	9,80652,71920,3934	9,92119,52327	49:48
	13,40224,99574	29,59898	18,96048	9,08634,8716	15,40950	
84	64064,59065,33562	83435,20315	1 30236,06691	9,80661,80555,2650	9,92134,93277	50:24
	13,40029,84383	29,60760	18,96997	9,08312,5400	15,40853	
85	64077,99095,17945	83464,81075	1 30255,03688	9,80670,88867,8050	9,92150,34130	51: 0
	13,39834,65110	29,61622	18,97947	9,07990,3431	15,40755	
86	64091,38929,83055	83494,42697	1 30274,01635	9,80679,96858,1481	9,92165,74885	51:36
	13,39639,41758	29,62486	18,98896	9,07668,2810	15,40657	
87	64104,78569,24813	83524,05183	1 30293,00531	9,80689,04526,4291	9,92181,15542	52:12
	13,39444,14322	29,63350	18,99848	9,07346,3534	15,40560	
88	64118,18013,39135	83553,68533	1 30312,00379	9,80698,11872,7825	9,92196,56102	52:48
	13,39248,82809	29,64214	19,00798	9,07024,5603	15,40463	
89	64131,57262,21944	83583,32747	1 30331,01177	9,80707,18897,3428	9,92211,96565	53:24
	13,39053,47214	29,65079	19,01751	9,06702,9017	15,40366	
90	64144,96315,69158	83612,97826	1 30350,02928	9,80716,25600,2445	9,92227,36931	54: 0
	13,38858,07541	29,65944	19,02702	9,06381,3773	15,40269	
91	64158,35173,76699	83642,63770	1 30369,05630	9,80725,31981,6218	9,92242,77200	54:36
	13,38662,63789	29,66811	19,03656	9,06059,9870	15,40173	
92	64171,73836,40488	83672,30581	1 30388,09286	9,80734,38041,6088	9,92258,17373	55:12
	13,38467,15961	29,67677	19,04608	9,05738,7309	15,40076	
93	64185,12303,56449	83701,98258	1 30407,13894	9,80743,43780,3397	9,92273,57449	55:48
	13,38271,64053	29,68544	19,05563	9,05417,6087	15,39980	
94	64198,50575,20502	83731,66802	1 30426,19457	9,80752,49197,9484	9,92288,97429	56:24
	13,38076,08071	29,69413	19,06517	9,05096,6205	15,39884	
95	64211,88651,28573	83761,36215	1 30445,25974	9,80761,54294,5689	9,92304,37313	57: 0
	13,37880,48011	29,70280	19,07472	9,04775,7658	15,39789	
96	64225,26531,76584	83791,06495	1 30464,33446	9,80770,59070,3347	9,92319,77102	57:36
	13,37684,83877	29,71149	19,08427	9,04455,0450	15,39693	
97	64238,64216,60461	83820,77644	1 30483,41873	9,80779,63525,3797	9,92335,16795	58:12
	13,37489,15668	29,72019	19,09383	9,04134,4576	15,39597	
98	64252,01705,76129	83850,49663	1 30502,51256	9,80788,67659,8373	9,92350,56392	58:48
	13,37293,43384	29,72889	19,10340	9,03814,0038	15,39503	
99	64265,38999,19513	83880,22552	1 30521,61596	9,80797,71473,8411	9,92365,95895	59:24
	13,37097,67026	29,73760	19,11297	9,03493,6832	15,39407	
100	64278,76096,86539	83909,96312	1 30540,72893	9,80806,74967,5243	9,92381,35302	60: 0
	13,36901,86597	29,74630	19,12255	9,03173,4960	15,39313	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	76973,39076,11130	1 20578,98857	1 56650,22338	9,88634,06181,2250	10,08127,16366	19:48
	11,14274,11835	42,82014	32,95773	6,28734,3277	15,42545	
32	76962,24801,99295	1 20536,16843	1 56617,26565	9,88627,77446,8973	10,08111,73821	19:12
	11,14508,55877	42,80212	32,93909	6,28957,6764	15,42443	
31	76951,10293,43418	1 20493,36631	1 56584,32656	9,88621,48489,2209	10,08096,31378	18:36
	11,14742,96523	42,78412	32,92047	6,29181,0899	15,42343	
30	76939,95550,46895	1 20450,58219	1 56551,40609	9,88615,19308,1310	10,08080,89035	18: 0
	11,14977,33774	42,76614	32,90186	6,29404,5682	15,42242	
29	76928,80573,13121	1 20407,81605	1 56518,50423	9,88608,89903,5628	10,08065,46793	17:24
	11,15211,67627	42,74816	32,88327	6,29628,1111	15,42142	
28	76917,65361,45494	1 20365,06789	1 56485,62096	9,88602,60275,4517	10,08050,04651	16:48
	11,15445,98085	42,73021	32,86469	6,29851,7189	15,42041	
27	76906,49915,47409	1 20322,33768	1 56452,75627	9,88596,30423,7328	10,08034,62610	16:12
	11,15680,25145	42,71227	32,84613	6,30075,3917	15,41941	
26	76895,34235,22264	1 20279,62541	1 56419,91014	9,88590,00348,3411	10,08019,20669	15:36
	11,15914,48804	42,69434	32,82757	6,30299,1293	15,41841	
25	76884,18320,73460	1 20236,93107	1 56387,08257	9,88583,70049,2118	10,08003,78828	15: 0
	11,16148,69067	42,67642	32,80904	6,30522,9318	15,41741	
24	76873,02172,04393	1 20194,25465	1 56354,27353	9,88577,39526,2800	10,07988,37087	14:24
	11,16382,85928	42,65852	32,79051	6,30746,7993	15,41642	
23	76861,85789,18465	1 20151,59613	1 56321,48302	9,88571,08779,4807	10,07972,95445	13:48
	11,16616,99388	42,64063	32,77200	6,30970,7320	15,41543	
22	76850,69172,19077	1 20108,95550	1 56288,71102	9,88564,77808,7487	10,07957,53902	13:12
	11,16851,09448	42,62276	32,75351	6,31194,7296	15,41443	
21	76839,52321,09629	1 20066,33274	1 56255,95751	9,88558,46614,0191	10,07942,12459	12:36
	11,17085,16106	42,60490	32,73502	6,31418,7924	15,41344	
20	76828,35235,93523	1 20023,72784	1 56223,22249	9,88552,15195,2267	10,07926,71115	12: 0
	11,17319,19359	42,58705	32,71655	6,31642,9203	15,41246	
19	76817,17916,74164	1 19981,14079	1 56190,50594	9,88545,83552,3064	10,07911,29869	11:24
	11,17553,19211	42,56922	32,69810	6,31867,1135	15,41147	
18	76806,00363,54953	1 19938,57157	1 56157,80784	9,88539,51685,1929	10,07895,88722	10:48
	11,17787,15657	42,55141	32,67965	6,32091,3719	15,41049	
17	76794,82576,39296	1 19896,02016	1 56125,12819	9,88533,19593,8210	10,07880,47673	10:12
	11,18021,08699	42,53359	32,66123	6,32315,6956	15,40950	
16	76783,64555,30597	1 19853,48657	1 56092,46696	9,88526,87278,1254	10,07865,06723	9:36
	11,18254,98334	42,51581	32,64281	6,32540,0846	15,40853	
15	76772,46300,32263	1 19810,97076	1 56059,82415	9,88520,54738,0408	10,07849,65870	9: 0
	11,18488,84564	42,49803	32,62440	6,32764,5390	15,40755	
14	76761,27811,47699	1 19768,47273	1 56027,19975	9,88514,21973,5018	10,07834,25115	8:24
	11,18722,67387	42,48026	32,60602	6,32989,0588	15,40657	
13	76750,09088,80312	1 19725,99247	1 55994,59373	9,88507,88984,4430	10,07818,84458	7:48
	11,18956,46801	42,46252	32,58765	6,33213,6441	15,40560	
12	76738,90132,33511	1 19683,52995	1 55962,00608	9,88501,55770,7989	10,07803,43898	7:12
	11,19190,22807	42,44478	32,56928	6,33438,2948	15,40463	
11	76727,70942,10704	1 19641,08517	1 55929,43680	9,88495,22332,5041	10,07788,03435	6:36
	11,19423,95404	42,42706	32,55094	6,33663,0111	15,40366	
10	76716,51518,15300	1 19598,65811	1 55896,88586	9,88488,88669,4930	10,07772,63069	6: 0
	11,19657,64591	42,40935	32,53260	6,33887,7930	15,40269	
9	76705,31860,50709	1 19556,24876	1 55864,35326	9,88482,54781,7000	10,07757,22800	5:24
	11,19891,30367	42,39165	32,51428	6,34112,6406	15,40173	
8	76694,11969,20342	1 19513,85711	1 55831,83898	9,88476,20669,0594	10,07741,82627	4:48
	11,20124,92732	42,37397	32,49597	6,34337,5537	15,40076	
7	76682,91844,27610	1 19471,48314	1 55799,34301	9,88469,86331,5057	10,07726,42551	4:12
	11,20358,51685	42,35631	32,47768	6,34562,5326	15,39980	
6	76671,71485,75925	1 19429,12683	1 55766,86533	9,88463,51768,9731	10,07711,02571	3:36
	11,20592,07224	42,33865	32,45940	6,34787,5773	15,39884	
5	76660,50893,68701	1 19386,78818	1 55734,40593	9,88457,16981,3958	10,07695,62687	3: 0
	11,20825,59351	42,32101	32,44113	6,35012,6877	15,39789	
4	76649,30068,09350	1 19344,46717	1 55701,96480	9,88450,81968,7081	10,07680,22898	2:24
	11,21059,08063	42,30339	32,42287	6,35237,8641	15,39693	
3	76638,09009,01287	1 19302,16378	1 55669,54193	9,88444,46730,8440	10,07664,83205	1:48
	11,21292,53360	42,28577	32,40464	6,35463,1062	15,39597	
2	76626,87716,47927	1 19259,87801	1 55637,13729	9,88438,11267,7378	10,07649,43608	1:12
	11,21525,95242	42,26817	32,38641	6,35688,4143	15,39503	
1	76615,66190,52685	1 19217,60984	1 55604,75088	9,88431,75579,3235	10,07634,04105	0:36
	11,21759,33707	42,25058	32,36819	6,35913,7883	15,39407	
0	76604,44431,18978	1 19175,35926	1 55572,38269	9,88425,39665,5352	10,07618,64698	0: 0
	11,21992,68755	42,23301	32,35000	6,36139,2284	15,39313	

GRAD. 50.

40. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
0	64278,76096,86539	83909,96312	1 30540,72893	9,80806,74967,5243	9,92381,35302	0: 0
	13,36901,86597	29,74630	19,12255	9,03173,4960	15,39313	
1	64292,12998,73136	83939,70942	1 30559,85148	9,80815,78141,0203	9,92396,74615	0:36
	13,36706,02093	29,75503	19,13213	9,02853,4419	15,39218	
2	64305,49704,75229	83969,46445	1 30578,98361	9,80824,80994,4622	9,92412,13833	1:12
	13,36510,13520	29,76374	19,14171	9,02533,5207	15,39124	
3	64318,86214,88749	83999,22819	1 30598,12532	9,80833,83527,9829	9,92427,52957	1:48
	13,36314,20873	29,77248	19,15131	9,02213,7327	15,39029	
4	64332,22529,09622	84029,00067	1 30617,27663	9,80842,85741,7156	9,92442,91986	2:24
	13,36118,24157	29,78121	19,16090	9,01894,0773	15,38936	
5	64345,58647,33779	84058,78188	1 30636,43753	9,80851,87635,7929	9,92458,30922	3: 0
	13,35922,23370	29,78995	19,17051	9,01574,5548	15,38842	
6	64358,94569,57149	84088,57183	1 30655,60804	9,80860,89210,3477	9,92473,69764	3:36
	13,35726,18515	29,79869	19,18011	9,01255,1648	15,38749	
7	64372,30295,75664	84118,37052	1 30674,78815	9,80869,90465,5125	9,92489,08513	4:12
	13,35530,09590	29,80744	19,18973	9,00935,9074	15,38655	
8	64385,65825,85254	84148,17796	1 30693,97788	9,80878,91401,4199	9,92504,47168	4:48
	13,35333,96596	29,81620	19,19935	9,00616,7825	15,38562	
9	64399,01159,81850	84177,99416	1 30713,17723	9,80887,92018,2024	9,92519,85730	5:24
	13,35137,79537	29,82497	19,20897	9,00297,7899	15,38468	
10	64412,36297,61387	84207,81913	1 30732,38620	9,80896,92315,9923	9,92535,24198	6: 0
	13,34941,58408	29,83373	19,21861	8,99978,9294	15,38377	
11	64425,71239,19795	84237,65286	1 30751,60481	9,80905,92294,9217	9,92550,62575	6:36
	13,34745,33214	29,84251	19,22823	8,99660,2012	15,38283	
12	64439,05984,53009	84267,49537	1 30770,83304	9,80914,91955,1229	9,92566,00858	7:12
	13,34549,03954	29,85128	19,23788	8,99341,6049	15,38192	
13	64452,40533,56963	84297,34665	1 30790,07092	9,80923,91296,7278	9,92581,39050	7:48
	13,34352,70628	29,86007	19,24753	8,99023,1406	15,38099	
14	64465,74886,27591	84327,20672	1 30809,31845	9,80932,90319,8684	9,92596,77149	8:24
	13,34156,33239	29,86886	19,25718	8,98704,8080	15,38007	
15	64479,09042,60830	84357,07558	1 30828,57563	9,80941,89024,6764	9,92612,15156	9: 0
	13,33959,91784	29,87766	19,26683	8,98386,6073	15,37915	
16	64492,43002,52614	84386,95324	1 30847,84246	9,80950,87411,2837	9,92627,53071	9:36
	13,33763,46267	29,88646	19,27650	8,98068,5381	15,37824	
17	64505,76765,98881	84416,83970	1 30867,11896	9,80959,85479,8218	9,92642,90895	10:12
	13,33566,96687	29,89527	19,28617	8,97750,6004	15,37733	
18	64519,10332,95568	84446,73497	1 30886,40513	9,80968,83230,4222	9,92658,28628	10:48
	13,33370,43043	29,90408	19,29583	8,97432,7943	15,37641	
19	64532,43703,38611	84476,63905	1 30905,70096	9,80977,80663,2165	9,92673,66269	11:24
	13,33173,85340	29,91290	19,30552	8,97115,1193	15,37550	
20	64545,76877,23951	84506,55195	1 30925,00648	9,80986,77778,3358	9,92689,03819	12: 0
	13,32977,23573	29,92173	19,31520	8,96797,5756	15,37460	
21	64559,09854,47524	84536,47368	1 30944,32168	9,80995,74575,9114	9,92704,41279	12:36
	13,32780,57748	29,93055	19,32490	8,96480,1630	15,37369	
22	64572,42635,05272	84566,40423	1 30963,64658	9,81004,71056,0744	9,92719,78648	13:12
	13,32583,87862	29,93940	19,33458	8,96162,8814	15,37278	
23	64585,75218,93134	84596,34363	1 30982,98116	9,81013,67218,9558	9,92735,15926	13:48
	13,32387,13917	29,94823	19,34429	8,95845,7308	15,37189	
24	64599,07606,07051	84626,29186	1 31002,32545	9,81022,63064,6866	9,92750,53115	14:24
	13,32190,35913	29,95708	19,35400	8,95528,7110	15,37098	
25	64612,39796,42964	84656,24894	1 31021,67945	9,81031,58593,3976	9,92765,90213	15: 0
	13,31993,53851	29,96594	19,36370	8,95211,8218	15,37009	
26	64625,71789,96815	84686,21488	1 31041,04315	9,81040,53805,2194	9,92781,27222	15:36
	13,31796,67732	29,97480	19,37343	8,94895,0633	15,36919	
27	64639,03586,64547	84716,18968	1 31060,41658	9,81049,48700,2827	9,92796,64141	16:12
	13,31599,77555	29,98366	19,38315	8,94578,4353	15,36829	
28	64652,35186,42102	84746,17334	1 31079,79973	9,81058,43278,7180	9,92812,00970	16:48
	13,31402,83323	29,99253	19,39287	8,94261,9377	15,36741	
29	64665,66589,25425	84776,16587	1 31099,19260	9,81067,37540,6557	9,92827,37711	17:24
	13,31205,85035	30,00141	19,40261	8,93945,5704	15,36651	
30	64678,97795,10460	84806,16728	1 31118,59521	9,81076,31486,2261	9,92842,74362	18: 0
	13,31008,82691	30,01030	19,41235	8,93629,3334	15,36563	
31	64692,28803,93151	84836,17758	1 31138,00756	9,81085,25115,5595	9,92858,10925	18:36
	13,30811,76293	30,01918	19,42209	8,93313,2265	15,36474	
32	64705,59615,69444	84866,19676	1 31157,42965	9,81094,18428,7860	9,92873,47399	19:12
	13,30614,65842	30,02807	19,43184	8,92997,2495	15,36386	
33	64718,90230,35286	84896,22483	1 31176,86149	9,81103,11426,0355	9,92888,83785	19:48
	13,30417,51337	30,03698	19,44160	8,92681,4025	15,36297	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
100	76604,44431,18978	1 19175,35926	1 55572,38269	9,88425,39665,5352	10,07618,64698	60: 0
	11,21992,68755	42,23301	32,35000	6,36139,2284	15,39313	
99	76593,22438,50223	1 19133,12625	1 55540,03269	9,88419,03526,3068	10,07603,25385	59:24
	11,22226,00385	42,21546	32,33181	6,36364,7346	15,39218	
98	76582,00212,49838	1 19090,91079	1 55507,70088	9,88412,67161,5722	10,07587,86167	58:48
	11,22459,28598	42,19790	32,31363	6,36590,3068	15,39124	
97	76570,77753,21240	1 19048,71289	1 55475,38725	9,88406,30571,2654	10,07572,47043	58:12
	11,22692,53389	42,18038	32,29547	6,36815,9451	15,39029	
96	76559,55060,67851	1 19006,53251	1 55443,09178	9,88399,93755,3203	10,07557,08014	57:36
	11,22925,74763	42,16285	32,27733	6,37041,6497	15,38936	
95	76548,32134,93088	1 18964,36966	1 55410,81445	9,88393,56713,6706	10,07541,69078	57: 0
	11,23158,92714	42,14536	32,25919	6,37267,4205	15,38842	
94	76537,08976,00374	1 18922,22430	1 55378,55526	9,88387,19446,2501	10,07526,30236	56:24
	11,23392,07246	42,12786	32,24108	6,37493,2575	15,38749	
93	76525,85583,93128	1 18880,09644	1 55346,31418	9,88380,81952,9926	10,07510,91487	55:48
	11,23625,18354	42,11038	32,22296	6,37719,1608	15,38655	
92	76514,61958,74774	1 18837,98606	1 55314,09122	9,88374,44233,8318	10,07495,52832	55:12
	11,23858,26040	42,09291	32,20487	6,37945,1305	15,38562	
91	76503,38100,48734	1 18795,89315	1 55281,88635	9,88368,06288,7013	10,07480,14270	54:36
	11,24091,30302	42,07547	32,18679	6,38171,1667	15,38468	
90	76492,14009,18432	1 18753,81768	1 55249,69956	9,88361,68117,5346	10,07464,75802	54: 0
	11,24324,31141	42,05803	32,16872	6,38397,2691	15,38377	
89	76480,89684,87291	1 18711,75965	1 55217,53084	9,88355,29720,2655	10,07449,37425	53:24
	11,24557,28554	42,04060	32,15067	6,38623,4382	15,38283	
88	76469,65127,58737	1 18669,71905	1 55185,38017	9,88348,91096,8273	10,07433,99142	52:48
	11,24790,22542	42,02319	32,13262	6,38849,6737	15,38192	
87	76458,40337,36195	1 18627,69586	1 55153,24755	9,88342,52247,1536	10,07418,60950	52:12
	11,25023,13103	42,00580	32,11460	6,39075,9759	15,38099	
86	76447,15314,23092	1 18585,69006	1 55121,13295	9,88336,13171,1777	10,07403,22851	51:36
	11,25256,00238	41,98841	32,09658	6,39302,3445	15,38007	
85	76435,90058,22854	1 18543,70165	1 55089,03637	9,88329,73868,8332	10,07387,84844	51: 0
	11,25488,83945	41,97104	32,07858	6,39528,7799	15,37915	
84	76424,64569,38909	1 18501,73061	1 55056,95779	9,88323,34340,0533	10,07372,46929	50:24
	11,25721,64223	41,95368	32,06059	6,39755,2820	15,37824	
83	76413,38847,74686	1 18459,77693	1 55024,89720	9,88316,94584,7713	10,07357,09105	49:48
	11,25954,41072	41,93634	32,04262	6,39981,8509	15,37733	
82	76402,12893,33614	1 18417,84059	1 54992,85458	9,88310,54602,9204	10,07341,71372	49:12
	11,26187,14492	41,91900	32,02465	6,40208,4864	15,37641	
81	76390,86706,19122	1 18375,92159	1 54960,82993	9,88304,14394,4340	10,07326,33731	48:36
	11,26419,84480	41,90169	32,00671	6,40435,1888	15,37550	
80	76379,60286,34642	1 18334,01990	1 54928,82322	9,88297,73959,2452	10,07310,96181	48: 0
	11,26652,51038	41,88438	31,98876	6,40661,9582	15,37460	
79	76368,33633,83604	1 18292,13552	1 54896,83446	9,88291,33297,2870	10,07295,58721	47:24
	11,26885,14163	41,86710	31,97085	6,40888,7944	15,37369	
78	76357,06748,69441	1 18250,26842	1 54864,86361	9,88284,92408,4926	10,07280,21352	46:48
	11,27117,73856	41,84981	31,95293	6,41115,6975	15,37278	
77	76345,79630,95585	1 18208,41861	1 54832,91068	9,88278,51292,7951	10,07264,84074	46:12
	11,27350,30115	41,83255	31,93503	6,41342,6677	15,37189	
76	76334,52280,65470	1 18166,58606	1 54800,97565	9,88272,09950,1274	10,07249,46885	45:36
	11,27582,82941	41,81530	31,91716	6,41569,7050	15,37098	
75	76323,24697,82529	1 18124,77076	1 54769,05849	9,88265,68380,4224	10,07234,09787	45: 0
	11,27815,32331	41,79806	31,89928	6,41796,8092	15,37009	
74	76311,96882,50198	1 18082,97270	1 54737,15921	9,88259,26583,6132	10,07218,72778	44:24
	11,28047,78287	41,78083	31,88142	6,42023,9807	15,36919	
73	76300,68834,71911	1 18041,19187	1 54705,27779	9,88252,84559,6325	10,07203,35859	43:48
	11,28280,20805	41,76363	31,86357	6,42251,2194	15,36829	
72	76289,40554,51106	1 17999,42824	1 54673,41422	9,88246,42308,4131	10,07187,99030	43:12
	11,28512,59887	41,74642	31,84575	6,42478,5251	15,36741	
71	76278,12041,91219	1 17957,68182	1 54641,56847	9,88239,99829,8880	10,07172,62289	42:36
	11,28744,95531	41,72924	31,82792	6,42705,8983	15,36651	
70	76266,83296,95688	1 17915,95258	1 54609,74055	9,88233,57123,9897	10,07157,25638	42: 0
	11,28977,27737	41,71207	31,81012	6,42933,3386	15,36563	
69	76255,54319,67951	1 17874,24051	1 54577,93043	9,88227,14190,6511	10,07141,89075	41:24
	11,29209,56503	41,69490	31,79232	6,43160,8465	15,36474	
68	76244,25110,11448	1 17832,54561	1 54546,13811	9,88220,71029,8046	10,07126,52601	40:48
	11,29441,81831	41,67777	31,77455	6,43388,4216	15,36386	
67	76232,95668,29617	1 17790,86784	1 54514,36356	9,88214,27641,3830	10,07111,16215	40:12
	11,29674,03717	41,66062	31,75677	6,43616,0641	15,36297	

GRAD. 49.

40. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	64718,90230,35286	84896,22483	1 31176,86149	9,81103,11426,0355	9,92888,83785	19:48
	13,30417,51337	30,03698	19,44160	8,92681,4025	15,36297	
34	64732,20647,86623	84926,26181	1 31196,30309	9,81112,04107,4380	9,92904,20082	20:24
	13,30220,32779	30,04588	19,45136	8,92365,6853	15,36210	
35	64745,50868,19402	84956,30769	1 31215,75445	9,81120,96473,1233	9,92919,56292	21: 0
	13,30023,10169	30,05479	19,46113	8,92050,0978	15,36121	
36	64758,80891,29571	84986,36248	1 31235,21558	9,81129,88523,2211	9,92934,92413	21:36
	13,29825,83509	30,06371	19,47090	8,91734,6400	15,36034	
37	64772,10717,13080	85016,42619	1 31254,68648	9,81138,80257,8611	9,92950,28447	22:12
	13,29628,52796	30,07264	19,48068	8,91419,3116	15,35947	
38	64785,40345,65876	85046,49883	1 31274,16716	9,81147,71677,1727	9,92965,64394	22:48
	13,29431,18033	30,08156	19,49046	8,91104,1127	15,35859	
39	64798,69776,83909	85076,58039	1 31293,65762	9,81156,62781,2854	9,92981,00253	23:24
	13,29233,79222	30,09050	19,50025	8,90789,0432	15,35773	
40	64811,99010,63131	85106,67089	1 31313,15787	9,81165,53570,3286	9,92996,36026	24: 0
	13,29036,36360	30,09943	19,51004	8,90474,1027	15,35685	
41	64825,28046,99491	85136,77032	1 31332,66791	9,81174,44044,4313	9,93011,71711	24:36
	13,28838,89451	30,10839	19,51985	8,90159,2915	15,35599	
42	64838,56885,88942	85166,87871	1 31352,18776	9,81183,34203,7228	9,93027,07310	25:12
	13,28641,38493	30,11733	19,52965	8,89844,6092	15,35513	
43	64851,85527,27435	85196,99604	1 31371,71741	9,81192,24048,3320	9,93042,42823	25:48
	13,28443,83489	30,12630	19,53946	8,89530,0560	15,35426	
44	64865,13971,10924	85227,12234	1 31391,25687	9,81201,13578,3880	9,93057,78249	26:24
	13,28246,24437	30,13525	19,54928	8,89215,6314	15,35340	
45	64878,42217,35361	85257,25759	1 31410,80615	9,81210,02794,0194	9,93073,13589	27: 0
	13,28048,61340	30,14423	19,55910	8,88901,3358	15,35255	
46	64891,70265,96701	85287,40182	1 31430,36525	9,81218,91695,3552	9,93088,48844	27:36
	13,27850,94196	30,15321	19,56893	8,88587,1686	15,35168	
47	64904,98116,90897	85317,55503	1 31449,93418	9,81227,80282,5238	9,93103,84012	28:12
	13,27653,23009	30,16218	19,57876	8,88273,1300	15,35084	
48	64918,25770,13906	85347,71721	1 31469,51294	9,81236,68555,6538	9,93119,19096	28:48
	13,27455,47777	30,17117	19,58860	8,87959,2199	15,34998	
49	64931,53225,61683	85377,88838	1 31489,10154	9,81245,56514,8737	9,93134,54094	29:24
	13,27257,68501	30,18017	19,59845	8,87645,4381	15,34913	
50	64944,80483,30184	85408,06855	1 31508,69999	9,81254,44160,3118	9,93149,89007	30: 0
	13,27059,85182	30,18916	19,60830	8,87331,7846	15,34828	
51	64958,07543,15366	85438,25771	1 31528,30829	9,81263,31492,0964	9,93165,23835	30:36
	13,26861,97821	30,19817	19,61815	8,87018,2591	15,34743	
52	64971,34405,13187	85468,45588	1 31547,92644	9,81272,18510,3555	9,93180,58578	31:12
	13,26664,06417	30,20718	19,62801	8,86704,8617	15,34659	
53	64984,61069,19604	85498,66306	1 31567,55445	9,81281,05215,2172	9,93195,93237	31:48
	13,26466,10973	30,21619	19,63788	8,86391,5923	15,34575	
54	64997,87535,30577	85528,87925	1 31587,19233	9,81289,91606,8095	9,93211,27812	32:24
	13,26268,11489	30,22522	19,64776	8,86078,4507	15,34491	
55	65011,13803,42066	85559,10447	1 31606,84009	9,81298,77685,2602	9,93226,62303	33: 0
	13,26070,07963	30,23425	19,65763	8,85765,4369	15,34406	
56	65024,39873,50029	85589,33872	1 31626,49772	9,81307,63450,6971	9,93241,96709	33:36
	13,25872,00398	30,24328	19,66752	8,85452,5508	15,34324	
57	65037,65745,50427	85619,58200	1 31646,16524	9,81316,48903,2479	9,93257,31033	34:12
	13,25673,88796	30,25232	19,67740	8,85139,7921	15,34239	
58	65050,91419,39223	85649,83432	1 31665,84264	9,81325,34043,0400	9,93272,65272	34:48
	13,25475,73153	30,26137	19,68731	8,84827,1610	15,34156	
59	65064,16895,12376	85680,09569	1 31685,52995	9,81334,18870,2010	9,93287,99428	35:24
	13,25277,53475	30,27042	19,69720	8,84514,6572	15,34074	
60	65077,42172,65851	85710,36611	1 31705,22715	9,81343,03384,8582	9,93303,33502	36: 0
	13,25079,29758	30,27947	19,70711	8,84202,2806	15,33990	
61	65090,67251,95609	85740,64558	1 31724,93426	9,81351,87587,1388	9,93318,67492	36:36
	13,24881,02006	30,28854	19,71702	8,83890,0313	15,33908	
62	65103,92132,97615	85770,93412	1 31744,65128	9,81360,71477,1701	9,93334,01400	37:12
	13,24682,70217	30,29762	19,72694	8,83577,9091	15,33825	
63	65117,16815,67832	85801,23174	1 31764,37822	9,81369,55055,0792	9,93349,35225	37:48
	13,24484,34393	30,30668	19,73686	8,83265,9137	15,33743	
64	65130,41300,02225	85831,53842	1 31784,11508	9,81378,38320,9929	9,93364,68968	38:24
	13,24285,94535	30,31577	19,74679	8,82954,0454	15,33660	
65	65143,65585,96760	85861,85419	1 31803,86187	9,81387,21275,0383	9,93380,02628	39: 0
	13,24087,50643	30,32485	19,75673	8,82642,3037	15,33579	
66	65156,89673,47403	85892,17904	1 31823,61860	9,81396,03917,3420	9,93395,36207	39:36
	13,23889,02717	30,33395	19,76667	8,82330,6887	15,33497	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	76232,95668,29617	1 17790,86784	1 54514,36356	9,88214,27641,3830	10,07111,16215	40:12
	11,29674,03717	41,66062	31,75677	6,43616,0641	15,36297	
66	76221,65994,25900	1 17749,20722	1 54482,60679	9,88207,84025,3189	10,07095,79918	39:36
	11,29906,22162	41,64351	31,73902	6,43843,7743	15,36210	
65	76210,36088,03738	1 17707,56371	1 54450,86777	9,88201,40181,5446	10,07080,43708	39: 0
	11,30138,37166	41,62640	31,72128	6,44071,5518	15,36121	
64	76199,05949,66572	1 17665,93731	1 54419,14649	9,88194,96109,9928	10,07065,07587	38:24
	11,30370,48727	41,60931	31,70355	6,44299,3971	15,36034	
63	76187,75579,17845	1 17624,32800	1 54387,44294	9,88188,51810,5957	10,07049,71553	37:48
	11,30602,56844	41,59223	31,68583	6,44527,3098	15,35947	
62	76176,44976,61001	1 17582,73577	1 54355,75711	9,88182,07283,2859	10,07034,35606	37:12
	11,30834,61518	41,57516	31,66813	6,44755,2902	15,35859	
61	76165,14141,99483	1 17541,16061	1 54324,08898	9,88175,62527,9957	10,07018,99747	36:36
	11,31066,62746	41,55810	31,65044	6,44983,3384	15,35773	
60	76153,83075,36737	1 17499,60251	1 54292,43854	9,88169,17544,6573	10,07003,63974	36: 0
	11,31298,60530	41,54106	31,63276	6,45211,4543	15,35685	
59	76142,51776,76207	1 17458,06145	1 54260,80578	9,88162,72333,2030	10,06988,28289	35:24
	11,31530,54867	41,52404	31,61510	6,45439,6380	15,35599	
58	76131,20246,21340	1 17416,53741	1 54229,19068	9,88156,26893,5650	10,06972,92690	34:48
	11,31762,45758	41,50702	31,59744	6,45667,8895	15,35513	
57	76119,88483,75582	1 17375,03039	1 54197,59324	9,88149,81225,6755	10,06957,57177	34:12
	11,31994,33200	41,49001	31,57981	6,45896,2089	15,35426	
56	76108,56489,42382	1 17333,54038	1 54166,01343	9,88143,35329,4666	10,06942,21751	33:36
	11,32226,17195	41,47303	31,56218	6,46124,5962	15,35340	
55	76097,24263,25187	1 17292,06735	1 54134,45125	9,88136,89204,8704	10,06926,86411	33: 0
	11,32457,97741	41,45605	31,54456	6,46353,0516	15,35255	
54	76085,91805,27446	1 17250,61130	1 54102,90669	9,88130,42851,8188	10,06911,51156	32:24
	11,32689,74837	41,43908	31,52696	6,46581,5748	15,35168	
53	76074,59115,52609	1 17209,17222	1 54071,37973	9,88123,96270,2440	10,06896,15988	31:48
	11,32921,48482	41,42214	31,50937	6,46810,1661	15,35084	
52	76063,26194,04127	1 17167,75008	1 54039,87036	9,88117,49460,0779	10,06880,80904	31:12
	11,33153,18677	41,40520	31,49180	6,47038,8256	15,34998	
51	76051,93040,85450	1 17126,34488	1 54008,37856	9,88111,02421,2523	10,06865,45906	30:36
	11,33384,85419	41,38827	31,47424	6,47267,5532	15,34913	
50	76040,59656,00031	1 17084,95661	1 53976,90432	9,88104,55153,6991	10,06850,10993	30: 0
	11,33616,48710	41,37136	31,45668	6,47496,3490	15,34828	
49	76029,26039,51321	1 17043,58525	1 53945,44764	9,88098,07657,3501	10,06834,76165	29:24
	11,33848,08547	41,35446	31,43915	6,47725,2130	15,34743	
48	76017,92191,42774	1 17002,23079	1 53914,00849	9,88091,59932,1371	10,06819,41422	28:48
	11,34079,64930	41,33757	31,42162	6,47954,1454	15,34659	
47	76006,58111,77844	1 16960,89322	1 53882,58687	9,88085,11977,9917	10,06804,06763	28:12
	11,34311,17858	41,32071	31,40411	6,48183,1459	15,34575	
46	75995,23800,59986	1 16919,57251	1 53851,18276	9,88078,63794,8458	10,06788,72188	27:36
	11,34542,67332	41,30384	31,38661	6,48412,2149	15,34491	
45	75983,89257,92654	1 16878,26867	1 53819,79615	9,88072,15382,6309	10,06773,37697	27: 0
	11,34774,13349	41,28699	31,36912	6,48641,3523	15,34406	
44	75972,54483,79305	1 16836,98168	1 53788,42703	9,88065,66741,2786	10,06758,03291	26:24
	11,35005,55910	41,27016	31,35165	6,48870,5582	15,34324	
43	75961,19478,23395	1 16795,71152	1 53757,07538	9,88059,17870,7204	10,06742,68967	25:48
	11,35236,95013	41,25333	31,33418	6,49099,8325	15,34239	
42	75949,84241,28382	1 16754,45819	1 53725,74120	9,88052,68770,8879	10,06727,34728	25:12
	11,35468,30657	41,23653	31,31674	6,49329,1754	15,34156	
41	75938,48772,97725	1 16713,22166	1 53694,42446	9,88046,19441,7125	10,06712,00572	24:36
	11,35699,62844	41,21973	31,29930	6,49558,5870	15,34074	
40	75927,13073,34881	1 16672,00193	1 53663,12516	9,88039,69883,1255	10,06696,66498	24: 0
	11,35930,91571	41,20294	31,28187	6,49788,0670	15,33990	
39	75915,77142,43310	1 16630,79899	1 53631,84329	9,88033,20095,0585	10,06681,32508	23:24
	11,36162,16836	41,18618	31,26447	6,50017,6158	15,33908	
38	75904,40980,26474	1 16589,61281	1 53600,57882	9,88026,70077,4427	10,06665,98600	22:48
	11,36393,38643	41,16942	31,24706	6,50247,2334	15,33825	
37	75893,04586,87831	1 16548,44339	1 53569,33176	9,88020,19830,2093	10,06650,64775	22:12
	11,36624,56986	41,15267	31,22968	6,50476,9197	15,33743	
36	75881,67962,30845	1 16507,29072	1 53538,10208	9,88013,69353,2896	10,06635,31032	21:36
	11,36855,71867	41,13594	31,21230	6,50706,6748	15,33660	
35	75870,31106,58978	1 16466,15478	1 53506,88978	9,88007,18646,6148	10,06619,97372	21: 0
	11,37086,83286	41,11921	31,19494	6,50936,4987	15,33579	
34	75858,94019,75692	1 16425,03557	1 53475,69484	9,88000,67710,1161	10,06604,63793	20:24
	11,37317,91240	41,10251	31,17759	6,51166,3916	15,33497	

GRAD. 49.

40. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	65170,13562,50120	85922,51299	1 31843,38527	9,81404,86248,0307	9,93410,69704	40:12
	13,23690,50759	30,34305	19,77661	8,82019,2004	15,33416	
68	65183,37253,00879	85952,85604	1 31863,16188	9,81413,68267,2311	9,93426,03120	40:48
	13,23491,94768	30,35215	19,78657	8,81707,8386	15,33334	
69	65196,60744,95647	85983,20819	1 31882,94845	9,81422,49975,0697	9,93441,36454	41:24
	13,23293,34745	30,36127	19,79652	8,81396,6031	15,33253	
70	65209,84038,30392	86013,56946	1 31902,74497	9,81431,31371,6728	9,93456,69707	42: 0
	13,23094,70692	30,37038	19,80649	8,81085,4940	15,33172	
71	65223,07133,01084	86043,93984	1 31922,55146	9,81440,12457,1668	9,93472,02879	42:36
	13,22896,02609	30,37950	19,81645	8,80774,5110	15,33092	
72	65236,30029,03693	86074,31934	1 31942,36791	9,81448,93231,6778	9,93487,35971	43:12
	13,22697,30495	30,38863	19,82643	8,80463,6541	15,33011	
73	65249,52726,34188	86104,70797	1 31962,19434	9,81457,73695,3319	9,93502,68982	43:48
	13,22498,54353	30,39777	19,83641	8,80152,9234	15,32930	
74	65262,75224,88541	86135,10574	1 31982,03075	9,81466,53848,2553	9,93518,01912	44:24
	13,22299,74181	30,40691	19,84640	8,79842,3185	15,32850	
75	65275,97524,62722	86165,51265	1 32001,87715	9,81475,33690,5738	9,93533,34762	45: 0
	13,22100,89983	30,41606	19,85639	8,79531,8394	15,32771	
76	65289,19625,52705	86195,92871	1 32021,73354	9,81484,13222,4132	9,93548,67533	45:36
	13,21902,01756	30,42521	19,86638	8,79221,4861	15,32690	
77	65302,41527,54461	86226,35392	1 32041,59992	9,81492,92443,8993	9,93564,00223	46:12
	13,21703,09503	30,43437	19,87639	8,78911,2584	15,32611	
78	65315,63230,63964	86256,78829	1 32061,47631	9,81501,71355,1577	9,93579,32834	46:48
	13,21504,13223	30,44353	19,88640	8,78601,1562	15,32532	
79	65328,84734,77187	86287,23182	1 32081,36271	9,81510,49956,3139	9,93594,65366	47:24
	13,21305,12918	30,45270	19,89641	8,78291,1796	15,32453	
80	65342,06039,90105	86317,68452	1 32101,25912	9,81519,28247,4935	9,93609,97819	48: 0
	13,21106,08589	30,46188	19,90643	8,77981,3281	15,32373	
81	65355,27145,98694	86348,14640	1 32121,16555	9,81528,06228,8216	9,93625,30192	48:36
	13,20907,00235	30,47107	19,91646	8,77671,6021	15,32295	
82	65368,48052,98929	86378,61747	1 32141,08201	9,81536,83900,4237	9,93640,62487	49:12
	13,20707,87857	30,48025	19,92649	8,77362,0011	15,32216	
83	65381,68760,86786	86409,09772	1 32161,00850	9,81545,61262,4248	9,93655,94703	49:48
	13,20508,71455	30,48945	19,93653	8,77052,5252	15,32137	
84	65394,89269,58241	86439,58717	1 32180,94503	9,81554,38314,9500	9,93671,26840	50:24
	13,20309,51033	30,49865	19,94658	8,76743,1744	15,32060	
85	65408,09579,09274	86470,08582	1 32200,89161	9,81563,15058,1244	9,93686,58900	51: 0
	13,20110,26587	30,50785	19,95662	8,76433,9483	15,31981	
86	65421,29689,35861	86500,59367	1 32220,84823	9,81571,91492,0727	9,93701,90881	51:36
	13,19910,98121	30,51707	19,96667	8,76124,8470	15,31904	
87	65434,49600,33982	86531,11074	1 32240,81490	9,81580,67616,9197	9,93717,22785	52:12
	13,19711,65633	30,52629	19,97674	8,75815,8705	15,31826	
88	65447,69311,99615	86561,63703	1 32260,79164	9,81589,43432,7902	9,93732,54611	52:48
	13,19512,29126	30,53551	19,98680	8,75507,0185	15,31749	
89	65460,88824,28741	86592,17254	1 32280,77844	9,81598,18939,8087	9,93747,86360	53:24
	13,19312,88599	30,54475	19,99688	8,75198,2911	15,31671	
90	65474,08137,17340	86622,71729	1 32300,77532	9,81606,94138,0998	9,93763,18031	54: 0
	13,19113,44053	30,55398	20,00696	8,74889,6879	15,31594	
91	65487,27250,61393	86653,27127	1 32320,78228	9,81615,69027,7877	9,93778,49625	54:36
	13,18913,95490	30,56323	20,01703	8,74581,2093	15,31518	
92	65500,46164,56883	86683,83450	1 32340,79931	9,81624,43608,9970	9,93793,81143	55:12
	13,18714,42907	30,57247	20,02713	8,74272,8547	15,31441	
93	65513,64878,99790	86714,40697	1 32360,82644	9,81633,17881,8517	9,93809,12584	55:48
	13,18514,86310	30,58173	20,03722	8,73964,6243	15,31364	
94	65526,83393,86100	86744,98870	1 32380,86366	9,81641,91846,4760	9,93824,43948	56:24
	13,18315,25694	30,59099	20,04733	8,73656,5179	15,31288	
95	65540,01709,11794	86775,57969	1 32400,91099	9,81650,65502,9939	9,93839,75236	57: 0
	13,18115,61063	30,60026	20,05743	8,73348,5355	15,31212	
96	65553,19824,72857	86806,17995	1 32420,96842	9,81659,38851,5294	9,93855,06448	57:36
	13,17915,92418	30,60953	20,06755	8,73040,6769	15,31136	
97	65566,37740,65275	86836,78948	1 32441,03597	9,81668,11892,2063	9,93870,37584	58:12
	13,17716,19756	30,61881	20,07766	8,72732,9420	15,31060	
98	65579,55456,85031	86867,40829	1 32461,11363	9,81676,84625,1483	9,93885,68644	58:48
	13,17516,43082	30,62810	20,08779	8,72425,3309	15,30985	
99	65592,72973,28113	86898,03639	1 32481,20142	9,81685,57050,4792	9,93900,99629	59:24
	13,17316,62394	30,63739	20,09791	8,72117,8432	15,30910	
100	65605,90289,90507	86928,67378	1 32501,29933	9,81694,29168,3224	9,93916,30539	60: 0
	13,17116,77693	30,64669	20,10806	8,71810,4790	15,30835	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	75847,56701,84452	1 16383,93306	1 53444,51725	9,87994,16543,7245	10,06589,30296	19:48
	11,37548,95730	41,08582	31,16026	6,51396,3535	15,33416	
32	75836,19152,88722	1 16342,84724	1 53413,35699	9,87987,65147,3710	10,06573,96880	19:12
	11,37779,96755	41,06913	31,14293	6,51626,3843	15,33334	
31	75824,81372,91967	1 16301,77811	1 53382,21406	9,87981,13520,9867	10,06558,63546	18:36
	11,38010,94315	41,05247	31,12562	6,51856,4841	15,33253	
30	75813,43361,97652	1 16260,72564	1 53351,08844	9,87974,61664,5026	10,06543,30293	18: 0
	11,38241,88407	41,03580	31,10832	6,52086,6531	15,33172	
29	75802,05120,09245	1 16219,68984	1 53319,98012	9,87968,09577,8495	10,06527,97121	17:24
	11,38472,79032	41,01917	31,09103	6,52316,8911	15,33092	
28	75790,66647,30213	1 16178,67067	1 53288,88909	9,87961,57260,9584	10,06512,64029	16:48
	11,38703,66189	41,00253	31,07376	6,52547,1984	15,33011	
27	75779,27943,64024	1 16137,66814	1 53257,81533	9,87955,04713,7600	10,06497,31018	16:12
	11,38934,49878	40,98591	31,05649	6,52777,5748	15,32930	
26	75767,89009,14146	1 16096,68223	1 53226,75884	9,87948,51936,1852	10,06481,98088	15:36
	11,39165,30096	40,96931	31,03925	6,53008,0206	15,32850	
25	75756,49843,84050	1 16055,71292	1 53195,71959	9,87941,98928,1646	10,06466,65238	15: 0
	11,39396,06846	40,95271	31,02201	6,53238,5356	15,32771	
24	75745,10447,77204	1 16014,76021	1 53164,69758	9,87935,45689,6290	10,06451,32467	14:24
	11,39626,80124	40,93613	31,00478	6,53469,1201	15,32690	
23	75733,70820,97080	1 15973,82408	1 53133,69280	9,87928,92220,5089	10,06435,99777	13:48
	11,39857,49931	40,91957	30,98757	6,53699,7738	15,32611	
22	75722,30963,47149	1 15932,90451	1 53102,70523	9,87922,38520,7351	10,06420,67166	13:12
	11,40088,16266	40,90300	30,97037	6,53930,4970	15,32532	
21	75710,90875,30883	1 15892,00151	1 53071,73486	9,87915,84590,2381	10,06405,34634	12:36
	11,40318,79127	40,88647	30,95318	6,54161,2898	15,32453	
20	75699,50556,51756	1 15851,11504	1 53040,78168	9,87909,30428,9483	10,06390,02181	12: 0
	11,40549,38515	40,86993	30,93601	6,54392,1521	15,32373	
19	75688,10007,13241	1 15810,24511	1 53009,84567	9,87902,76036,7962	10,06374,69808	11:24
	11,40779,94428	40,85341	30,91884	6,54623,0839	15,32295	
18	75676,69227,18813	1 15769,39170	1 52978,92683	9,87896,21413,7123	10,06359,37513	10:48
	11,41010,46868	40,83691	30,90169	6,54854,0854	15,32216	
17	75665,28216,71945	1 15728,55479	1 52948,02514	9,87889,66559,6269	10,06344,05297	10:12
	11,41240,95830	40,82041	30,88455	6,55085,1566	15,32137	
16	75653,86975,76115	1 15687,73438	1 52917,14059	9,87883,11474,4703	10,06328,73160	9:36
	11,41471,41317	40,80394	30,86743	6,55316,2975	15,32060	
15	75642,45504,34798	1 15646,93044	1 52886,27316	9,87876,56158,1728	10,06313,41100	9: 0
	11,41701,83326	40,78746	30,85031	6,55547,5080	15,31981	
14	75631,03802,51472	1 15606,14298	1 52855,42285	9,87870,00610,6648	10,06298,09119	8:24
	11,41932,21858	40,77101	30,83321	6,55778,7886	15,31904	
13	75619,61870,29614	1 15565,37197	1 52824,58964	9,87863,44831,8762	10,06282,77215	7:48
	11,42162,56911	40,75456	30,81612	6,56010,1388	15,31826	
12	75608,19707,72703	1 15524,61741	1 52793,77352	9,87856,88821,7374	10,06267,45389	7:12
	11,42392,88485	40,73814	30,79904	6,56241,5591	15,31749	
11	75596,77314,84218	1 15483,87927	1 52762,97448	9,87850,32580,1783	10,06252,13640	6:36
	11,42623,16578	40,72171	30,78198	6,56473,0492	15,31671	
10	75585,34691,67640	1 15443,15756	1 52732,19250	9,87843,76107,1291	10,06236,81969	6: 0
	11,42853,41192	40,70531	30,76492	6,56704,6094	15,31594	
9	75573,91838,26448	1 15402,45225	1 52701,42758	9,87837,19402,5197	10,06221,50375	5:24
	11,43083,62324	40,68892	30,74788	6,56936,2396	15,31518	
8	75562,48754,64124	1 15361,76333	1 52670,67970	9,87830,62466,2801	10,06206,18857	4:48
	11,43313,79974	40,67253	30,73085	6,57167,9399	15,31441	
7	75551,05440,84150	1 15321,09080	1 52639,94885	9,87824,05298,3402	10,06190,87416	4:12
	11,43543,94142	40,65616	30,71384	6,57399,7102	15,31364	
6	75539,61896,90008	1 15280,43464	1 52609,23501	9,87817,47898,6300	10,06175,56052	3:36
	11,43774,04824	40,63981	30,69683	6,57631,5509	15,31288	
5	75528,18122,85184	1 15239,79483	1 52578,53818	9,87810,90267,0791	10,06160,24764	3: 0
	11,44004,12025	40,62346	30,67984	6,57863,4617	15,31212	
4	75516,74118,73159	1 15199,17137	1 52547,85834	9,87804,32403,6174	10,06144,93552	2:24
	11,44234,15739	40,60713	30,66286	6,58095,4428	15,31136	
3	75505,29884,57420	1 15158,56424	1 52517,19548	9,87797,74308,1746	10,06129,62416	1:48
	11,44464,15969	40,59081	30,64589	6,58327,4941	15,31060	
2	75493,85420,41451	1 15117,97343	1 52486,54959	9,87791,15980,6805	10,06114,31356	1:12
	11,44694,12711	40,57450	30,62893	6,58559,6159	15,30985	
1	75482,40726,28740	1 15077,39893	1 52455,92066	9,87784,57421,0646	10,06099,00371	0:36
	11,44924,05968	40,55821	30,61199	6,58791,8081	15,30910	
0	75470,95802,22772	1 15036,84072	1 52425,30867	9,87777,98629,2565	10,06083,69461	0: 0
	11,45153,95736	40,54192	30,59506	6,59024,0707	15,30835	

GRAD. 49.

41. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
0	65605,90289,90507	86928,67378	1 32501,29933	9,81694,29168,3224	9,93916,30539	0: 0
	13,17116,77693	30,64669	20,10806	8,71810,4790	15,30835	
1	65619,07406,68200	86959,32047	1 32521,40739	9,81703,00978,8014	9,93931,61374	0:36
	13,16916,88981	30,65599	20,11820	8,71503,2383	15,30759	
2	65632,24323,57181	86989,97646	1 32541,52559	9,81711,72482,0397	9,93946,92133	1:12
	13,16716,96255	30,66530	20,12834	8,71196,1208	15,30685	
3	65645,41040,53436	87020,64176	1 32561,65393	9,81720,43678,1605	9,93962,22818	1:48
	13,16516,99520	30,67462	20,13850	8,70889,1265	15,30611	
4	65658,57557,52956	87051,31638	1 32581,79243	9,81729,14567,2870	9,93977,53429	2:24
	13,16316,98775	30,68394	20,14866	8,70582,2552	15,30536	
5	65671,73874,51731	87082,00032	1 32601,94109	9,81737,85149,5422	9,93992,83965	3: 0
	13,16116,94019	30,69327	20,15882	8,70275,5071	15,30462	
6	65684,89991,45750	87112,69359	1 32622,09991	9,81746,55425,0493	9,94008,14427	3:36
	13,15916,85254	30,70260	20,16900	8,69968,8818	15,30388	
7	65698,05908,31004	87143,39619	1 32642,26891	9,81755,25393,9311	9,94023,44815	4:12
	13,15716,72481	30,71195	20,17917	8,69662,3793	15,30314	
8	65711,21625,03485	87174,10814	1 32662,44808	9,81763,95056,3104	9,94038,75129	4:48
	13,15516,55699	30,72129	20,18935	8,69355,9995	15,30241	
9	65724,37141,59184	87204,82943	1 32682,63743	9,81772,64412,3099	9,94054,05370	5:24
	13,15316,34912	30,73064	20,19955	8,69049,7425	15,30167	
10	65737,52457,94096	87235,56007	1 32702,83698	9,81781,33462,0524	9,94069,35537	6: 0
	13,15116,10116	30,74001	20,20974	8,68743,6078	15,30094	
11	65750,67574,04212	87266,30008	1 32723,04672	9,81790,02205,6602	9,94084,65631	6:36
	13,14915,81315	30,74937	20,21994	8,68437,5958	15,30021	
12	65763,82489,85527	87297,04945	1 32743,26666	9,81798,70643,2560	9,94099,95652	7:12
	13,14715,48509	30,75874	20,23014	8,68131,7060	15,29949	
13	65776,97205,34036	87327,80819	1 32763,49680	9,81807,38774,9620	9,94115,25601	7:48
	13,14515,11697	30,76812	20,24036	8,67825,9386	15,29876	
14	65790,11720,45733	87358,57631	1 32783,73716	9,81816,06600,9006	9,94130,55477	8:24
	13,14314,70881	30,77750	20,25058	8,67520,2932	15,29803	
15	65803,26035,16614	87389,35381	1 32803,98774	9,81824,74121,1938	9,94145,85280	9: 0
	13,14114,26063	30,78689	20,26080	8,67214,7700	15,29731	
16	65816,40149,42677	87420,14070	1 32824,24854	9,81833,41335,9638	9,94161,15011	9:36
	13,13913,77239	30,79629	20,27103	8,66909,3688	15,29660	
17	65829,54063,19916	87450,93699	1 32844,51957	9,81842,08245,3326	9,94176,44671	10:12
	13,13713,24415	30,80569	20,28127	8,66604,0894	15,29587	
18	65842,67776,44331	87481,74268	1 32864,80084	9,81850,74849,4220	9,94191,74258	10:48
	13,13512,67589	30,81510	20,29151	8,66298,9319	15,29516	
19	65855,81289,11920	87512,55778	1 32885,09235	9,81859,41148,3539	9,94207,03774	11:24
	13,13312,06760	30,82451	20,30176	8,65993,8961	15,29444	
20	65868,94601,18680	87543,38229	1 32905,39411	9,81868,07142,2500	9,94222,33218	12: 0
	13,13111,41933	30,83394	20,31201	8,65688,9819	15,29374	
21	65882,07712,60613	87574,21623	1 32925,70612	9,81876,72831,2319	9,94237,62592	12:36
	13,12910,73104	30,84336	20,32227	8,65384,1892	15,29302	
22	65895,20623,33717	87605,05959	1 32946,02839	9,81885,38215,4211	9,94252,91894	13:12
	13,12710,00276	30,85279	20,33254	8,65079,5181	15,29231	
23	65908,33333,33993	87635,91238	1 32966,36093	9,81894,03294,9392	9,94268,21125	13:48
	13,12509,23450	30,86224	20,34281	8,64774,9682	15,29161	
24	65921,45842,57443	87666,77462	1 32986,70374	9,81902,68069,9074	9,94283,50286	14:24
	13,12308,42626	30,87168	20,35309	8,64470,5396	15,29090	
25	65934,58151,00069	87697,64630	1 33007,05683	9,81911,32540,4470	9,94298,79376	15: 0
	13,12107,57803	30,88113	20,36337	8,64166,2321	15,29020	
26	65947,70258,57872	87728,52743	1 33027,42020	9,81919,96706,6791	9,94314,08396	15:36
	13,11906,68985	30,89059	20,37366	8,63862,0458	15,28949	
27	65960,82165,26857	87759,41802	1 33047,79386	9,81928,60568,7249	9,94329,37345	16:12
	13,11705,76169	30,90006	20,38396	8,63557,9805	15,28880	
28	65973,93871,03026	87790,31808	1 33068,17782	9,81937,24126,7054	9,94344,66225	16:48
	13,11504,79358	30,90952	20,39426	8,63254,0360	15,28811	
29	65987,05375,82384	87821,22760	1 33088,57208	9,81945,87380,7414	9,94359,95036	17:24
	13,11303,78553	30,91901	20,40456	8,62950,2124	15,28740	
30	66000,16679,60937	87852,14661	1 33108,97664	9,81954,50330,9538	9,94375,23776	18: 0
	13,11102,73752	30,92848	20,41488	8,62646,5094	15,28672	
31	66013,27782,34689	87883,07509	1 33129,39152	9,81963,12977,4632	9,94390,52448	18:36
	13,10901,64957	30,93798	20,42520	8,62342,9271	15,28602	
32	66026,38683,99646	87914,01307	1 33149,81672	9,81971,75320,3903	9,94405,81050	19:12
	13,10700,52170	30,94747	20,43553	8,62039,4653	15,28534	
33	66039,49384,51816	87944,96054	1 33170,25225	9,81980,37359,8556	9,94421,09584	19:48
	13,10499,35390	30,95697	20,44585	8,61736,1240	15,28464	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
100	75470,95802,22772	1 15036,84072	1 52425,30867	9,87777,98629,2565	10,06083,69461	60: 0
	11,45153,95736	40,54192	30,59506	6,59024,0707	15,30835	
99	75459,50648,27036	1 14996,29880	1 52394,71361	9,87771,39605,1858	10,06068,38626	59:24
	11,45383,82016	40,52565	30,57813	6,59256,4039	15,30759	
98	75448,05264,45020	1 14955,77315	1 52364,13548	9,87764,80348,7819	10,06053,07867	58:48
	11,45613,64808	40,50940	30,56123	6,59488,8075	15,30685	
97	75436,59650,80212	1 14915,26375	1 52333,57425	9,87758,20859,9744	10,06037,77182	58:12
	11,45843,44108	40,49315	30,54434	6,59721,2818	15,30611	
96	75425,13807,36104	1 14874,77060	1 52303,02991	9,87751,61138,6926	10,06022,46571	57:36
	11,46073,19920	40,47691	30,52744	6,59953,8267	15,30536	
95	75413,67734,16184	1 14834,29369	1 52272,50247	9,87745,01184,8659	10,06007,16035	57: 0
	11,46302,92239	40,46069	30,51058	6,60186,4422	15,30462	
94	75402,21431,23945	1 14793,83300	1 52241,99189	9,87738,40998,4237	10,05991,85573	56:24
	11,46532,61067	40,44449	30,49372	6,60419,1286	15,30388	
93	75390,74898,62878	1 14753,38851	1 52211,49817	9,87731,80579,2951	10,05976,55185	55:48
	11,46762,26403	40,42828	30,47687	6,60651,8857	15,30314	
92	75379,28136,36475	1 14712,96023	1 52181,02130	9,87725,19927,4094	10,05961,24871	55:12
	11,46991,88244	40,41210	30,46003	6,60884,7136	15,30241	
91	75367,81144,48231	1 14672,54813	1 52150,56127	9,87718,59042,6958	10,05945,94630	54:36
	11,47221,46593	40,39593	30,44321	6,61117,6124	15,30167	
90	75356,33923,01638	1 14632,15220	1 52120,11806	9,87711,97925,0834	10,05930,64463	54: 0
	11,47451,01447	40,37976	30,42640	6,61350,5822	15,30094	
89	75344,86472,00191	1 14591,77244	1 52089,69166	9,87705,36574,5012	10,05915,34369	53:24
	11,47680,52804	40,36362	30,40959	6,61583,6228	15,30021	
88	75333,38791,47387	1 14551,40882	1 52059,28207	9,87698,74990,8784	10,05900,04348	52:48
	11,47910,00667	40,34748	30,39281	6,61816,7345	15,29949	
87	75321,90881,46720	1 14511,06134	1 52028,88926	9,87692,13174,1439	10,05884,74399	52:12
	11,48139,45032	40,33136	30,37603	6,62049,9172	15,29876	
86	75310,42742,01688	1 14470,72998	1 51998,51323	9,87685,51124,2267	10,05869,44523	51:36
	11,48368,85901	40,31524	30,35927	6,62283,1711	15,29803	
85	75298,94373,15787	1 14430,41474	1 51968,15396	9,87678,88841,0556	10,05854,14720	51: 0
	11,48598,23270	40,29915	30,34252	6,62516,4961	15,29731	
84	75287,45774,92517	1 14390,11559	1 51937,81144	9,87672,26324,5595	10,05838,84989	50:24
	11,48827,57141	40,28305	30,32577	6,62749,8923	15,29660	
83	75275,96947,35376	1 14349,83254	1 51907,48567	9,87665,63574,6672	10,05823,55329	49:48
	11,49056,87513	40,26698	30,30905	6,62983,3598	15,29587	
82	75264,47890,47863	1 14309,56556	1 51877,17662	9,87659,00591,3074	10,05808,25742	49:12
	11,49286,14384	40,25092	30,29233	6,63216,8985	15,29516	
81	75252,98604,33479	1 14269,31464	1 51846,88429	9,87652,37374,4089	10,05792,96226	48:36
	11,49515,37755	40,23486	30,27562	6,63450,5086	15,29444	
80	75241,49088,95724	1 14229,07978	1 51816,60867	9,87645,73923,9003	10,05777,66782	48: 0
	11,49744,57623	40,21882	30,25893	6,63684,1900	15,29374	
79	75229,99344,38101	1 14188,86096	1 51786,34974	9,87639,10239,7103	10,05762,37408	47:24
	11,49973,73990	40,20280	30,24225	6,63917,9430	15,29302	
78	75218,49370,64111	1 14148,65816	1 51756,10749	9,87632,46321,7673	10,05747,08106	46:48
	11,50202,86853	40,18678	30,22558	6,64151,7673	15,29231	
77	75206,99167,77258	1 14108,47138	1 51725,88191	9,87625,82170,0000	10,05731,78875	46:12
	11,50431,96213	40,17078	30,20893	6,64385,6633	15,29161	
76	75195,48735,81045	1 14068,30060	1 51695,67298	9,87619,17784,3367	10,05716,49714	45:36
	11,50661,02068	40,15478	30,19227	6,64619,6307	15,29090	
75	75183,98074,78977	1 14028,14582	1 51665,48071	9,87612,53164,7060	10,05701,20624	45: 0
	11,50890,04418	40,13881	30,17564	6,64853,6698	15,29020	
74	75172,47184,74559	1 13988,00701	1 51635,30507	9,87605,88311,0362	10,05685,91604	44:24
	11,51119,03262	40,12284	30,15902	6,65087,7806	15,28949	
73	75160,96065,71297	1 13947,88417	1 51605,14605	9,87599,23223,2556	10,05670,62655	43:48
	11,51347,98601	40,10688	30,14241	6,65321,9630	15,28880	
72	75149,44717,72696	1 13907,77729	1 51575,00364	9,87592,57901,2926	10,05655,33775	43:12
	11,51576,90431	40,09094	30,12581	6,65556,2174	15,28811	
71	75137,93140,82265	1 13867,68635	1 51544,87783	9,87585,92345,0752	10,05640,04964	42:36
	11,51805,78754	40,07500	30,10923	6,65790,5433	15,28740	
70	75126,41335,03511	1 13827,61135	1 51514,76860	9,87579,26554,5319	10,05624,76224	42: 0
	11,52034,63568	40,05909	30,09264	6,66024,9413	15,28672	
69	75114,89300,39943	1 13787,55226	1 51484,67596	9,87572,60529,5906	10,05609,47552	41:24
	11,52263,44873	40,04317	30,07609	6,66259,4111	15,28602	
68	75103,37036,95070	1 13747,50909	1 51454,59987	9,87565,94270,1795	10,05594,18950	40:48
	11,52492,22667	40,02729	30,05953	6,66493,9529	15,28534	
67	75091,84544,72403	1 13707,48180	1 51424,54034	9,87559,27776,2266	10,05578,90416	40:12
	11,52720,96952	40,01139	30,04299	6,66728,5666	15,28464	

GRAD. 48.

41. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	66039,49384,51816	87944,96054	1 33170,25225	9,81980,37359,8556	9,94421,09584	19:48
	13,10499,35390	30,95697	20,44585	8,61736,1240	15,28464	
34	66052,59883,87206	87975,91751	1 33190,69810	9,81988,99095,9796	9,94436,38048	20:24
	13,10298,14618	30,96648	20,45620	8,61432,9030	15,28396	
35	66065,70182,01824	88006,88399	1 33211,15430	9,81997,60528,8826	9,94451,66444	21: 0
	13,10096,89854	30,97600	20,46654	8,61129,8024	15,28328	
36	66078,80278,91678	88037,85999	1 33231,62084	9,82006,21658,6850	9,94466,94772	21:36
	13,09895,61099	30,98551	20,47688	8,60826,8218	15,28260	
37	66091,90174,52777	88068,84550	1 33252,09772	9,82014,82485,5068	9,94482,23032	22:12
	13,09694,28356	30,99504	20,48725	8,60523,9613	15,28192	
38	66104,99868,81133	88099,84054	1 33272,58497	9,82023,43009,4681	9,94497,51224	22:48
	13,09492,91621	31,00458	20,49760	8,60221,2209	15,28124	
39	66118,09361,72754	88130,84512	1 33293,08257	9,82032,03230,6890	9,94512,79348	23:24
	13,09291,50898	31,01412	20,50798	8,59918,6003	15,28056	
40	66131,18653,23652	88161,85924	1 33313,59055	9,82040,63149,2893	9,94528,07404	24: 0
	13,09090,06187	31,02366	20,51834	8,59616,0996	15,27989	
41	66144,27743,29839	88192,88290	1 33334,10889	9,82049,22765,3889	9,94543,35393	24:36
	13,08888,57487	31,03321	20,52873	8,59313,7186	15,27922	
42	66157,36631,87326	88223,91611	1 33354,63762	9,82057,82079,1075	9,94558,63315	25:12
	13,08687,04802	31,04277	20,53911	8,59011,4573	15,27855	
43	66170,45318,92128	88254,95888	1 33375,17673	9,82066,41090,5648	9,94573,91170	25:48
	13,08485,48129	31,05234	20,54950	8,58709,3154	15,27788	
44	66183,53804,40257	88286,01122	1 33395,72623	9,82074,99799,8802	9,94589,18958	26:24
	13,08283,87470	31,06191	20,55990	8,58407,2931	15,27721	
45	66196,62088,27727	88317,07313	1 33416,28613	9,82083,58207,1733	9,94604,46679	27: 0
	13,08082,22826	31,07148	20,57031	8,58105,3900	15,27655	
46	66209,70170,50553	88348,14461	1 33436,85644	9,82092,16312,5633	9,94619,74334	27:36
	13,07880,54198	31,08107	20,58072	8,57803,6064	15,27589	
47	66222,78051,04751	88379,22568	1 33457,43716	9,82100,74116,1697	9,94635,01923	28:12
	13,07678,81586	31,09066	20,59113	8,57501,9418	15,27522	
48	66235,85729,86337	88410,31634	1 33478,02829	9,82109,31618,1115	9,94650,29445	28:48
	13,07477,04990	31,10026	20,60155	8,57200,3964	15,27457	
49	66248,93206,91327	88441,41660	1 33498,62984	9,82117,88818,5079	9,94665,56902	29:24
	13,07275,24410	31,10986	20,61198	8,56898,9701	15,27391	
50	66262,00482,15737	88472,52646	1 33519,24182	9,82126,45717,4780	9,94680,84293	30: 0
	13,07073,39851	31,11946	20,62242	8,56597,6625	15,27326	
51	66275,07555,55588	88503,64592	1 33539,86424	9,82135,02315,1405	9,94696,11619	30:36
	13,06871,51307	31,12909	20,63286	8,56296,4739	15,27260	
52	66288,14427,06895	88534,77501	1 33560,49710	9,82143,58611,6144	9,94711,38879	31:12
	13,06669,58784	31,13870	20,64330	8,55995,4040	15,27196	
53	66301,21096,65679	88565,91371	1 33581,14040	9,82152,14607,0184	9,94726,66075	31:48
	13,06467,62281	31,14833	20,65376	8,55694,4527	15,27130	
54	66314,27564,27960	88597,06204	1 33601,79416	9,82160,70301,4711	9,94741,93205	32:24
	13,06265,61797	31,15797	20,66421	8,55393,6201	15,27066	
55	66327,33829,89757	88628,22001	1 33622,45837	9,82169,25695,0912	9,94757,20271	33: 0
	13,06063,57334	31,16761	20,67468	8,55092,9059	15,27001	
56	66340,39893,47091	88659,38762	1 33643,13305	9,82177,80787,9971	9,94772,47272	33:36
	13,05861,48893	31,17725	20,68516	8,54792,3101	15,26937	
57	66353,45754,95984	88690,56487	1 33663,81821	9,82186,35580,3072	9,94787,74209	34:12
	13,05659,36474	31,18691	20,69562	8,54491,8326	15,26873	
58	66366,51414,32458	88721,75178	1 33684,51383	9,82194,90072,1398	9,94803,01082	34:48
	13,05457,20078	31,19657	20,70612	8,54191,4734	15,26809	
59	66379,56871,52536	88752,94835	1 33705,21995	9,82203,44263,6132	9,94818,27891	35:24
	13,05254,99706	31,20624	20,71660	8,53891,2322	15,26745	
60	66392,62126,52242	88784,15459	1 33725,93655	9,82211,98154,8454	9,94833,54636	36: 0
	13,05052,75356	31,21590	20,72709	8,53591,1091	15,26682	
61	66405,67179,27598	88815,37049	1 33746,66364	9,82220,51745,9545	9,94848,81318	36:36
	13,04850,47032	31,22559	20,73760	8,53291,1039	15,26618	
62	66418,72029,74630	88846,59608	1 33767,40124	9,82229,05037,0584	9,94864,07936	37:12
	13,04648,14732	31,23527	20,74811	8,52991,2167	15,26555	
63	66431,76677,89362	88877,83135	1 33788,14935	9,82237,58028,2751	9,94879,34491	37:48
	13,04445,78460	31,24497	20,75862	8,52691,4472	15,26493	
64	66444,81123,67822	88909,07632	1 33808,90797	9,82246,10719,7223	9,94894,60984	38:24
	13,04243,38212	31,25466	20,76914	8,52391,7953	15,26429	
65	66457,85367,06034	88940,33098	1 33829,67711	9,82254,63111,5176	9,94909,87413	39: 0
	13,04040,93993	31,26437	20,77966	8,52092,2611	15,26367	
66	66470,89408,00027	88971,59535	1 33850,45677	9,82263,15203,7787	9,94925,13780	39:36
	13,03838,45800	31,27408	20,79020	8,51792,8445	15,26304	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	75091,84544,72403	1 13707,48180	1 51424,54034	9,87559,27776,2266	10,05578,90416	40:12
	11,52720,96952	40,01139	30,04299	6,66728,5666	15,28464	
66	75080,31823,75451	1 13667,47041	1 51394,49735	9,87552,61047,6600	10,05563,61952	39:36
	11,52949,67725	39,99553	30,02646	6,66963,2525	15,28396	
65	75068,78874,07726	1 13627,47488	1 51364,47089	9,87545,94084,4075	10,05548,33556	39: 0
	11,53178,34985	39,97966	30,00994	6,67198,0104	15,28328	
64	75057,25695,72741	1 13587,49522	1 51334,46095	9,87539,26886,3971	10,05533,05228	38:24
	11,53406,98733	39,96382	29,99344	6,67432,8404	15,28260	
63	75045,72288,74008	1 13547,53140	1 51304,46751	9,87532,59453,5567	10,05517,76968	37:48
	11,53635,58968	39,94798	29,97695	6,67667,7427	15,28192	
62	75034,18653,15040	1 13507,58342	1 51274,49056	9,87525,91785,8140	10,05502,48776	37:12
	11,53864,15687	39,93215	29,96046	6,67902,7171	15,28124	
61	75022,64788,99353	1 13467,65127	1 51244,53010	9,87519,23883,0969	10,05487,20652	36:36
	11,54092,68893	39,91634	29,94400	6,68137,7639	15,28056	
60	75011,10696,30460	1 13427,73493	1 51214,58610	9,87512,55745,3330	10,05471,92596	36: 0
	11,54321,18583	39,90054	29,92753	6,68372,8831	15,27989	
59	74999,56375,11877	1 13387,83439	1 51184,65857	9,87505,87372,4499	10,05456,64607	35:24
	11,54549,64757	39,88476	29,91109	6,68608,0744	15,27922	
58	74988,01825,47120	1 13347,94963	1 51154,74748	9,87499,18764,3755	10,05441,36685	34:48
	11,54778,07413	39,86897	29,89465	6,68843,3384	15,27855	
57	74976,47047,39707	1 13308,08066	1 51124,85283	9,87492,49921,0371	10,05426,08830	34:12
	11,55006,46552	39,85321	29,87823	6,69078,6748	15,27788	
56	74964,92040,93155	1 13268,22745	1 51094,97460	9,87485,80842,3623	10,05410,81042	33:36
	11,55234,82172	39,83745	29,86181	6,69314,0837	15,27721	
55	74953,36806,10983	1 13228,39000	1 51065,11279	9,87479,11528,2786	10,05395,53321	33: 0
	11,55463,14275	39,82171	29,84541	6,69549,5651	15,27655	
54	74941,81342,96708	1 13188,56829	1 51035,26738	9,87472,41978,7135	10,05380,25666	32:24
	11,55691,42855	39,80598	29,82903	6,69785,1193	15,27589	
53	74930,25651,53853	1 13148,76231	1 51005,43835	9,87465,72193,5942	10,05364,98077	31:48
	11,55919,67918	39,79026	29,81264	6,70020,7460	15,27522	
52	74918,69731,85935	1 13108,97205	1 50975,62571	9,87459,02172,8482	10,05349,70555	31:12
	11,56147,89457	39,77455	29,79628	6,70256,4455	15,27457	
51	74907,13583,96478	1 13069,19750	1 50945,82943	9,87452,31916,4027	10,05334,43098	30:36
	11,56376,07476	39,75886	29,77992	6,70492,2177	15,27391	
50	74895,57207,89002	1 13029,43864	1 50916,04951	9,87445,61424,1850	10,05319,15707	30: 0
	11,56604,21972	39,74318	29,76358	6,70728,0628	15,27326	
49	74884,00603,67030	1 12989,69546	1 50886,28593	9,87438,90696,1222	10,05303,88381	29:24
	11,56832,32944	39,72750	29,74725	6,70963,9807	15,27260	
48	74872,43771,34086	1 12949,96796	1 50856,53868	9,87432,19732,1415	10,05288,61121	28:48
	11,57060,40393	39,71185	29,73093	6,71199,9715	15,27196	
47	74860,86710,93693	1 12910,25611	1 50826,80775	9,87425,48532,1700	10,05273,33925	28:12
	11,57288,44317	39,69619	29,71462	6,71436,0353	15,27130	
46	74849,29422,49376	1 12870,55992	1 50797,09313	9,87418,77096,1347	10,05258,06795	27:36
	11,57516,44716	39,68056	29,69832	6,71672,1721	15,27066	
45	74837,71906,04660	1 12830,87936	1 50767,39481	9,87412,05423,9626	10,05242,79729	27: 0
	11,57744,41589	39,66493	29,68203	6,71908,3818	15,27001	
44	74826,14161,63071	1 12791,21443	1 50737,71278	9,87405,33515,5808	10,05227,52728	26:24
	11,57972,34935	39,64932	29,66576	6,72144,6649	15,26937	
43	74814,56189,28136	1 12751,56511	1 50708,04702	9,87398,61370,9159	10,05212,25791	25:48
	11,58200,24753	39,63372	29,64950	6,72381,0209	15,26873	
42	74802,97989,03383	1 12711,93139	1 50678,39752	9,87391,88989,8950	10,05196,98918	25:12
	11,58428,11045	39,61812	29,63325	6,72617,4502	15,26809	
41	74791,39560,92338	1 12672,31327	1 50648,76427	9,87385,16372,4448	10,05181,72109	24:36
	11,58655,93806	39,60255	29,61700	6,72853,9527	15,26745	
40	74779,80904,98532	1 12632,71072	1 50619,14727	9,87378,43518,4921	10,05166,45364	24: 0
	11,58883,73039	39,58698	29,60077	6,73090,5285	15,26682	
39	74768,22021,25493	1 12593,12374	1 50589,54650	9,87371,70427,9636	10,05151,18682	23:24
	11,59111,48741	39,57142	29,58456	6,73327,1777	15,26618	
38	74756,62909,76752	1 12553,55232	1 50559,96194	9,87364,97100,7859	10,05135,92064	22:48
	11,59339,20912	39,55588	29,56835	6,73563,9002	15,26555	
37	74745,03570,55840	1 12513,99644	1 50530,39359	9,87358,23536,8857	10,05120,65509	22:12
	11,59566,89552	39,54035	29,55216	6,73800,6963	15,26493	
36	74733,44003,66288	1 12474,45609	1 50500,84143	9,87351,49736,1894	10,05105,39016	21:36
	11,59794,54660	39,52483	29,53597	6,74037,5657	15,26429	
35	74721,84209,11628	1 12434,93126	1 50471,30546	9,87344,75698,6237	10,05090,12587	21: 0
	11,60022,16235	39,50932	29,51980	6,74274,5087	15,26367	
34	74710,24186,95393	1 12395,42194	1 50441,78566	9,87338,01424,1150	10,05074,86220	20:24
	11,60249,74275	39,49382	29,50363	6,74511,5253	15,26304	

GRAD. 48.

41. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	66483,93246,45827	89002,86943	1 33871,24697	9,82271,66996,6232	9,94940,40084	40:12
	13,03635,93636	31,28379	20,80074	8,51493,5451	15,26242	
68	66496,96882,39463	89034,15322	1 33892,04771	9,82280,18490,1683	9,94955,66326	40:48
	13,03433,37502	31,29353	20,81128	8,51194,3633	15,26180	
69	66510,00315,76965	89065,44675	1 33912,85899	9,82288,69684,5316	9,94970,92506	41:24
	13,03230,77396	31,30325	20,82184	8,50895,2985	15,26119	
70	66523,03546,54361	89096,75000	1 33933,68083	9,82297,20579,8301	9,94986,18625	42: 0
	13,03028,13320	31,31299	20,83239	8,50596,3511	15,26056	
71	66536,06574,67681	89128,06299	1 33954,51322	9,82305,71176,1812	9,95001,44681	42:36
	13,02825,45276	31,32273	20,84295	8,50297,5206	15,25996	
72	66549,09400,12957	89159,38572	1 33975,35617	9,82314,21473,7018	9,95016,70677	43:12
	13,02622,73263	31,33248	20,85353	8,49998,8072	15,25934	
73	66562,12022,86220	89190,71820	1 33996,20970	9,82322,71472,5090	9,95031,96611	43:48
	13,02419,97282	31,34224	20,86410	8,49700,2106	15,25872	
74	66575,14442,83502	89222,06044	1 34017,07380	9,82331,21172,7196	9,95047,22483	44:24
	13,02217,17332	31,35200	20,87468	8,49401,7310	15,25813	
75	66588,16660,00834	89253,41244	1 34037,94848	9,82339,70574,4506	9,95062,48296	45: 0
	13,02014,33418	31,36177	20,88527	8,49103,3679	15,25751	
76	66601,18674,34252	89284,77421	1 34058,83375	9,82348,19677,8185	9,95077,74047	45:36
	13,01811,45535	31,37155	20,89586	8,48805,1216	15,25691	
77	66614,20485,79787	89316,14576	1 34079,72961	9,82356,68482,9401	9,95092,99738	46:12
	13,01608,53689	31,38133	20,90647	8,48506,9918	15,25630	
78	66627,22094,33476	89347,52709	1 34100,63608	9,82365,16989,9319	9,95108,25368	46:48
	13,01405,57876	31,39111	20,91707	8,48208,9785	15,25571	
79	66640,23499,91352	89378,91820	1 34121,55315	9,82373,65198,9104	9,95123,50939	47:24
	13,01202,58100	31,40092	20,92768	8,47911,0816	15,25510	
80	66653,24702,49452	89410,31912	1 34142,48083	9,82382,13109,9920	9,95138,76449	48: 0
	13,00999,54361	31,41071	20,93831	8,47613,3010	15,25451	
81	66666,25702,03813	89441,72983	1 34163,41914	9,82390,60723,2930	9,95154,01900	48:36
	13,00796,46656	31,42052	20,94893	8,47315,6366	15,25391	
82	66679,26498,50469	89473,15035	1 34184,36807	9,82399,08038,9296	9,95169,27291	49:12
	13,00593,34992	31,43034	20,95956	8,47018,0882	15,25332	
83	66692,27091,85461	89504,58069	1 34205,32763	9,82407,55057,0178	9,95184,52623	49:48
	13,00390,19363	31,44016	20,97020	8,46720,6561	15,25273	
84	66705,27482,04824	89536,02085	1 34226,29783	9,82416,01777,6739	9,95199,77896	50:24
	13,00186,99776	31,44999	20,98085	8,46423,3397	15,25214	
85	66718,27669,04600	89567,47084	1 34247,27868	9,82424,48201,0136	9,95215,03110	51: 0
	12,99983,76226	31,45982	20,99149	8,46126,1393	15,25155	
86	66731,27652,80826	89598,93066	1 34268,27017	9,82432,94327,1529	9,95230,28265	51:36
	12,99780,48716	31,46966	21,00216	8,45829,0547	15,25096	
87	66744,27433,29542	89630,40032	1 34289,27233	9,82441,40156,2076	9,95245,53361	52:12
	12,99577,17248	31,47951	21,01281	8,45532,0858	15,25038	
88	66757,27010,46790	89661,87983	1 34310,28514	9,82449,85688,2934	9,95260,78399	52:48
	12,99373,81821	31,48936	21,02349	8,45235,2324	15,24980	
89	66770,26384,28611	89693,36919	1 34331,30863	9,82458,30923,5258	9,95276,03379	53:24
	12,99170,42436	31,49923	21,03416	8,44938,4947	15,24922	
90	66783,25554,71047	89724,86842	1 34352,34279	9,82466,75862,0205	9,95291,28301	54: 0
	12,98966,99092	31,50909	21,04484	8,44641,8722	15,24864	
91	66796,24521,70139	89756,37751	1 34373,38763	9,82475,20503,8927	9,95306,53165	54:36
	12,98763,51793	31,51896	21,05553	8,44345,3653	15,24806	
92	66809,23285,21932	89787,89647	1 34394,44316	9,82483,64849,2580	9,95321,77971	55:12
	12,98560,00536	31,52885	21,06623	8,44048,9735	15,24749	
93	66822,21845,22468	89819,42532	1 34415,50939	9,82492,08898,2315	9,95337,02720	55:48
	12,98356,45325	31,53873	21,07693	8,43752,6970	15,24692	
94	66835,20201,67793	89850,96405	1 34436,58632	9,82500,52650,9285	9,95352,27412	56:24
	12,98152,86158	31,54862	21,08763	8,43456,5355	15,24635	
95	66848,18354,53951	89882,51267	1 34457,67395	9,82508,96107,4640	9,95367,52047	57: 0
	12,97949,23037	31,55853	21,09835	8,43160,4891	15,24577	
96	66861,16303,76988	89914,07120	1 34478,77230	9,82517,39267,9531	9,95382,76624	57:36
	12,97745,55962	31,56843	21,10907	8,42864,5576	15,24521	
97	66874,14049,32950	89945,63963	1 34499,88137	9,82525,82132,5107	9,95398,01145	58:12
	12,97541,84934	31,57835	21,11980	8,42568,7410	15,24465	
98	66887,11591,17884	89977,21798	1 34521,00117	9,82534,24701,2517	9,95413,25610	58:48
	12,97338,09953	31,58826	21,13052	8,42273,0390	15,24408	
99	66900,08929,27837	90008,80624	1 34542,13169	9,82542,66974,2907	9,95428,50018	59:24
	12,97134,31021	31,59819	21,14127	8,41977,4518	15,24352	
100	66913,06063,58858	90040,40443	1 34563,27296	9,82551,08951,7425	9,95443,74370	60: 0
	12,96930,48137	31,60812	21,15201	8,41681,9792	15,24297	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	74698,63937,21118	1 12355,92812	1 50412,28203	9,87331,26912,5897	10,05059,59916	19:48
	11,60477,28783	39,47833	29,48749	6,74748,6156	15,26242	
32	74687,03459,92335	1 12316,44979	1 50382,79454	9,87324,52163,9741	10,05044,33674	19:12
	11,60704,79754	39,46286	29,47135	6,74985,7795	15,26180	
31	74675,42755,12581	1 12276,98693	1 50353,32319	9,87317,77178,1946	10,05029,07494	18:36
	11,60932,27190	39,44740	29,45522	6,75223,0171	15,26119	
30	74663,81822,85391	1 12237,53953	1 50323,86797	9,87311,01955,1775	10,05013,81375	18: 0
	11,61159,71089	39,43194	29,43911	6,75460,3286	15,26056	
29	74652,20663,14302	1 12198,10759	1 50294,42886	9,87304,26494,8489	10,04998,55319	17:24
	11,61387,11452	39,41651	29,42300	6,75697,7138	15,25996	
28	74640,59276,02850	1 12158,69108	1 50265,00586	9,87297,50797,1351	10,04983,29323	16:48
	11,61614,48277	39,40107	29,40691	6,75935,1730	15,25934	
27	74628,97661,54573	1 12119,29001	1 50235,59895	9,87290,74861,9621	10,04968,03389	16:12
	11,61841,81563	39,38566	29,39082	6,76172,7061	15,25872	
26	74617,35819,73010	1 12079,90435	1 50206,20813	9,87283,98689,2560	10,04952,77517	15:36
	11,62069,11310	39,37025	29,37476	6,76410,3131	15,25813	
25	74605,73750,61700	1 12040,53410	1 50176,83337	9,87277,22278,9429	10,04937,51704	15: 0
	11,62296,37518	39,35486	29,35869	6,76647,9941	15,25751	
24	74594,11454,24182	1 12001,17924	1 50147,47468	9,87270,45630,9488	10,04922,25953	14:24
	11,62523,60184	39,33947	29,34265	6,76885,7494	15,25691	
23	74582,48930,63998	1 11961,83977	1 50118,13203	9,87263,68745,1994	10,04907,00262	13:48
	11,62750,79309	39,32410	29,32661	6,77123,5785	15,25630	
22	74570,86179,84689	1 11922,51567	1 50088,80542	9,87256,91621,6209	10,04891,74632	13:12
	11,62977,94893	39,30875	29,31058	6,77361,4821	15,25571	
21	74559,23201,89796	1 11883,20692	1 50059,49484	9,87250,14260,1388	10,04876,49061	12:36
	11,63205,06934	39,29339	29,29457	6,77599,4597	15,25510	
20	74547,59996,82862	1 11843,91353	1 50030,20027	9,87243,36660,6791	10,04861,23551	12: 0
	11,63432,15431	39,27805	29,27856	6,77837,5116	15,25451	
19	74535,96564,67431	1 11804,63548	1 50000,92171	9,87236,58823,1675	10,04845,98100	11:24
	11,63659,20385	39,26273	29,26257	6,78075,6379	15,25391	
18	74524,32905,47046	1 11765,37275	1 49971,65914	9,87229,80747,5296	10,04830,72709	10:48
	11,63886,21793	39,24742	29,24659	6,78313,8385	15,25332	
17	74512,69019,25253	1 11726,12533	1 49942,41255	9,87223,02433,6911	10,04815,47377	10:12
	11,64113,19657	39,23211	29,23062	6,78552,1136	15,25273	
16	74501,04906,05596	1 11686,89322	1 49913,18193	9,87216,23881,5775	10,04800,22104	9:36
	11,64340,13974	39,21682	29,21466	6,78790,4631	15,25214	
15	74489,40565,91622	1 11647,67640	1 49883,96727	9,87209,45091,1144	10,04784,96890	9: 0
	11,64567,04745	39,20154	29,19871	6,79028,8871	15,25155	
14	74477,75998,86877	1 11608,47486	1 49854,76856	9,87202,66062,2273	10,04769,71735	8:24
	11,64793,91967	39,18627	29,18277	6,79267,3858	15,25096	
13	74466,11204,94910	1 11569,28859	1 49825,58579	9,87195,86794,8415	10,04754,46639	7:48
	11,65020,75643	39,17101	29,16685	6,79505,9589	15,25038	
12	74454,46184,19267	1 11530,11758	1 49796,41894	9,87189,07288,8826	10,04739,21601	7:12
	11,65247,55768	39,15576	29,15093	6,79744,6069	15,24980	
11	74442,80936,63499	1 11490,96182	1 49767,26801	9,87182,27544,2757	10,04723,96621	6:36
	11,65474,32345	39,14053	29,13503	6,79983,3294	15,24922	
10	74431,15462,31154	1 11451,82129	1 49738,13298	9,87175,47560,9463	10,04708,71699	6: 0
	11,65701,05371	39,12531	29,11913	6,80222,1268	15,24864	
9	74419,49761,25783	1 11412,69598	1 49709,01385	9,87168,67338,8195	10,04693,46835	5:24
	11,65927,74846	39,11009	29,10326	6,80460,9990	15,24806	
8	74407,83833,50937	1 11373,58589	1 49679,91059	9,87161,86877,8205	10,04678,22029	4:48
	11,66154,40771	39,09489	29,08738	6,80699,9461	15,24749	
7	74396,17679,10166	1 11334,49100	1 49650,82321	9,87155,06177,8744	10,04662,97280	4:12
	11,66381,03141	39,07970	29,07152	6,80938,9680	15,24692	
6	74384,51298,07025	1 11295,41130	1 49621,75169	9,87148,25238,9064	10,04647,72588	3:36
	11,66607,61960	39,06452	29,05568	6,81178,0650	15,24635	
5	74372,84690,45065	1 11256,34678	1 49592,69601	9,87141,44060,8414	10,04632,47953	3: 0
	11,66834,17224	39,04935	29,03984	6,81417,2369	15,24577	
4	74361,17856,27841	1 11217,29743	1 49563,65617	9,87134,62643,6045	10,04617,23376	2:24
	11,67060,68935	39,03419	29,02401	6,81656,4839	15,24521	
3	74349,50795,58906	1 11178,26324	1 49534,63216	9,87127,80987,1206	10,04601,98855	1:48
	11,67287,17090	39,01905	29,00819	6,81895,8061	15,24465	
2	74337,83508,41816	1 11139,24419	1 49505,62397	9,87120,99091,3145	10,04586,74390	1:12
	11,67513,61689	39,00392	28,99239	6,82135,2033	15,24408	
1	74326,15994,80127	1 11100,24027	1 49476,63158	9,87114,16956,1112	10,04571,49982	0:36
	11,67740,02733	38,98879	28,97659	6,82374,6759	15,24352	
0	74314,48254,77394	1 11061,25148	1 49447,65499	9,87107,34581,4353	10,04556,25630	0: 0
	11,67966,40218	38,97368	28,96082	6,82614,2236	15,24297	

GRAD. 48.

42. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
0	66913,06063,58858	90040,40443	1 34563,27296	9,82551,08951,7425	9,95443,74370	0: 0
	12,96930,48137	31,60812	21,15201	8,41681,9792	15,24297	
1	66926,02994,06995	90072,01255	1 34584,42497	9,82559,50633,7217	9,95458,98667	0:36
	12,96726,61303	31,61807	21,16277	8,41386,6210	15,24240	
2	66938,99720,68298	90103,63062	1 34605,58774	9,82567,92020,3427	9,95474,22907	1:12
	12,96522,70518	31,62800	21,17352	8,41091,3773	15,24185	
3	66951,96243,38816	90135,25862	1 34626,76126	9,82576,33111,7200	9,95489,47092	1:48
	12,96318,75783	31,63797	21,18429	8,40796,2480	15,24129	
4	66964,92562,14599	90166,89659	1 34647,94555	9,82584,73907,9680	9,95504,71221	2:24
	12,96114,77102	31,64792	21,19505	8,40501,2328	15,24075	
5	66977,88676,91701	90198,54451	1 34669,14060	9,82593,14409,2008	9,95519,95296	3: 0
	12,95910,74470	31,65788	21,20584	8,40206,3319	15,24019	
6	66990,84587,66171	90230,20239	1 34690,34644	9,82601,54615,5327	9,95535,19315	3:36
	12,95706,67891	31,66786	21,21662	8,39911,5450	15,23965	
7	67003,80294,34062	90261,87025	1 34711,56306	9,82609,94527,0777	9,95550,43280	4:12
	12,95502,57366	31,67784	21,22741	8,39616,8722	15,23910	
8	67016,75796,91428	90293,54809	1 34732,79047	9,82618,34143,9499	9,95565,67190	4:48
	12,95298,42894	31,68783	21,23820	8,39322,3132	15,23856	
9	67029,71095,34322	90325,23592	1 34754,02867	9,82626,73466,2631	9,95580,91046	5:24
	12,95094,24477	31,69781	21,24901	8,39027,8681	15,23801	
10	67042,66189,58799	90356,93373	1 34775,27768	9,82635,12494,1312	9,95596,14847	6: 0
	12,94890,02114	31,70782	21,25982	8,38733,5367	15,23747	
11	67055,61079,60913	90388,64155	1 34796,53750	9,82643,51227,6679	9,95611,38594	6:36
	12,94685,75807	31,71782	21,27063	8,38439,3189	15,23694	
12	67068,55765,36720	90420,35937	1 34817,80813	9,82651,89666,9868	9,95626,62288	7:12
	12,94481,45556	31,72784	21,28146	8,38145,2149	15,23640	
13	67081,50246,82276	90452,08721	1 34839,08959	9,82660,27812,2017	9,95641,85928	7:48
	12,94277,11362	31,73785	21,29228	8,37851,2242	15,23586	
14	67094,44523,93638	90483,82506	1 34860,38187	9,82668,65663,4259	9,95657,09514	8:24
	12,94072,73225	31,74788	21,30312	8,37557,3470	15,23533	
15	67107,38596,66863	90515,57294	1 34881,68499	9,82677,03220,7729	9,95672,33047	9: 0
	12,93868,31146	31,75792	21,31396	8,37263,5831	15,23481	
16	67120,32464,98009	90547,33086	1 34902,99895	9,82685,40484,3560	9,95687,56528	9:36
	12,93663,85127	31,76795	21,32481	8,36969,9325	15,23427	
17	67133,26128,83136	90579,09881	1 34924,32376	9,82693,77454,2885	9,95702,79955	10:12
	12,93459,35165	31,77800	21,33566	8,36676,3950	15,23374	
18	67146,19588,18301	90610,87681	1 34945,65942	9,82702,14130,6835	9,95718,03329	10:48
	12,93254,81265	31,78805	21,34652	8,36382,9706	15,23322	
19	67159,12842,99566	90642,66486	1 34967,00594	9,82710,50513,6541	9,95733,26651	11:24
	12,93050,23424	31,79811	21,35739	8,36089,6591	15,23270	
20	67172,05893,22990	90674,46297	1 34988,36333	9,82718,86603,3132	9,95748,49921	12: 0
	12,92845,61645	31,80817	21,36826	8,35796,4607	15,23217	
21	67184,98738,84635	90706,27114	1 35009,73159	9,82727,22399,7739	9,95763,73138	12:36
	12,92640,95928	31,81825	21,37915	8,35503,3750	15,23166	
22	67197,91379,80563	90738,08939	1 35031,11074	9,82735,57903,1489	9,95778,96304	13:12
	12,92436,26272	31,82833	21,39003	8,35210,4021	15,23114	
23	67210,83816,06835	90769,91772	1 35052,50077	9,82743,93113,5510	9,95794,19418	13:48
	12,92231,52681	31,83842	21,40092	8,34917,5419	15,23062	
24	67223,76047,59516	90801,75614	1 35073,90169	9,82752,28031,0929	9,95809,42480	14:24
	12,92026,75152	31,84851	21,41182	8,34624,7941	15,23011	
25	67236,68074,34668	90833,60465	1 35095,31351	9,82760,62655,8870	9,95824,65491	15: 0
	12,91821,93688	31,85860	21,42273	8,34332,1590	15,22960	
26	67249,59896,28356	90865,46325	1 35116,73624	9,82768,96988,0460	9,95839,88451	15:36
	12,91617,08289	31,86872	21,43364	8,34039,6363	15,22908	
27	67262,51513,36645	90897,33197	1 35138,16988	9,82777,31027,6823	9,95855,11359	16:12
	12,91412,18955	31,87883	21,44456	8,33747,2258	15,22858	
28	67275,42925,55600	90929,21080	1 35159,61444	9,82785,64774,9081	9,95870,34217	16:48
	12,91207,25687	31,88894	21,45549	8,33454,9276	15,22807	
29	67288,34132,81287	90961,09974	1 35181,06993	9,82793,98229,8357	9,95885,57024	17:24
	12,91002,28486	31,89908	21,46641	8,33162,7417	15,22757	
30	67301,25135,09773	90992,99882	1 35202,53634	9,82802,31392,5774	9,95900,79781	18: 0
	12,90797,27353	31,90921	21,47736	8,32870,6677	15,22707	
31	67314,15932,37126	91024,90803	1 35224,01370	9,82810,64263,2451	9,95916,02488	18:36
	12,90592,22288	31,91934	21,48830	8,32578,7058	15,22656	
32	67327,06524,59414	91056,82737	1 35245,50200	9,82818,96841,9509	9,95931,25144	19:12
	12,90387,13290	31,92950	21,49925	8,32286,8558	15,22607	
33	67339,96911,72704	91088,75687	1 35267,00125	9,82827,29128,8067	9,95946,47751	19:48
	12,90182,00363	31,93965	21,51021	8,31995,1176	15,22557	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
100	74314,48254,77394	1 11061,25148	1 49447,65499	9,87107,34581,4353	10,04556,25630	60: 0
	11,67966,40218	38,97368	28,96082	6,82614,2236	15,24297	
99	74302,80288,37176	1 11022,27780	1 49418,69417	9,87100,51967,2117	10,04541,01333	59:24
	11,68192,74146	38,95857	28,94504	6,82853,8467	15,24240	
98	74291,12095,63030	1 10983,31923	1 49389,74913	9,87093,69113,3650	10,04525,77093	58:48
	11,68419,04516	38,94349	28,92928	6,83093,5452	15,24185	
97	74279,43676,58514	1 10944,37574	1 49360,81985	9,87086,86019,8198	10,04510,52908	58:12
	11,68645,31326	38,92841	28,91352	6,83333,3190	15,24129	
96	74267,75031,27188	1 10905,44733	1 49331,90633	9,87080,02686,5008	10,04495,28779	57:36
	11,68871,54577	38,91335	28,89779	6,83573,1684	15,24075	
95	74256,06159,72611	1 10866,53398	1 49303,00854	9,87073,19113,3324	10,04480,04704	57: 0
	11,69097,74266	38,89828	28,88207	6,83813,0932	15,24019	
94	74244,37061,98345	1 10827,63570	1 49274,12647	9,87066,35300,2392	10,04464,80685	56:24
	11,69323,90395	38,88324	28,86634	6,84053,0936	15,23965	
93	74232,67738,07950	1 10788,75246	1 49245,26013	9,87059,51247,1456	10,04449,56720	55:48
	11,69550,02962	38,86821	28,85064	6,84293,1697	15,23910	
92	74220,98188,04988	1 10749,88425	1 49216,40949	9,87052,66953,9759	10,04434,32810	55:12
	11,69776,11966	38,85318	28,83494	6,84533,3213	15,23856	
91	74209,28411,93022	1 10711,03107	1 49187,57455	9,87045,82420,6546	10,04419,08954	54:36
	11,70002,17406	38,83817	28,81926	6,84773,5488	15,23801	
90	74197,58409,75616	1 10672,19290	1 49158,75529	9,87038,97647,1058	10,04403,85153	54: 0
	11,70228,19282	38,82317	28,80358	6,85013,8520	15,23747	
89	74185,88181,56334	1 10633,36973	1 49129,95171	9,87032,12633,2538	10,04388,61406	53:24
	11,70454,17595	38,80818	28,78792	6,85254,2310	15,23694	
88	74174,17727,38739	1 10594,56155	1 49101,16379	9,87025,27379,0228	10,04373,37712	52:48
	11,70680,12341	38,79320	28,77227	6,85494,6858	15,23640	
87	74162,47047,26398	1 10555,76835	1 49072,39152	9,87018,41884,3370	10,04358,14072	52:12
	11,70906,03521	38,77824	28,75662	6,85735,2166	15,23586	
86	74150,76141,22877	1 10516,99011	1 49043,63490	9,87011,56149,1204	10,04342,90486	51:36
	11,71131,91135	38,76327	28,74100	6,85975,8234	15,23533	
85	74139,05009,31742	1 10478,22684	1 49014,89390	9,87004,70173,2970	10,04327,66953	51: 0
	11,71357,75181	38,74833	28,72537	6,86216,5062	15,23481	
84	74127,33651,56561	1 10439,47851	1 48986,16853	9,86997,83956,7908	10,04312,43472	50:24
	11,71583,55659	38,73340	28,70977	6,86457,2650	15,23427	
83	74115,62068,00902	1 10400,74511	1 48957,45876	9,86990,97499,5258	10,04297,20045	49:48
	11,71809,32568	38,71847	28,69416	6,86698,1000	15,23374	
82	74103,90258,68334	1 10362,02664	1 48928,76460	9,86984,10801,4258	10,04281,96671	49:12
	11,72035,05907	38,70356	28,67858	6,86939,0111	15,23322	
81	74092,18223,62427	1 10323,32308	1 48900,08602	9,86977,23862,4147	10,04266,73349	48:36
	11,72260,75677	38,68866	28,66301	6,87179,9985	15,23270	
80	74080,45962,86750	1 10284,63442	1 48871,42301	9,86970,36682,4162	10,04251,50079	48: 0
	11,72486,41875	38,67376	28,64743	6,87421,0622	15,23217	
79	74068,73476,44875	1 10245,96066	1 48842,77558	9,86963,49261,3540	10,04236,26862	47:24
	11,72712,04502	38,65889	28,63188	6,87662,2021	15,23166	
78	74057,00764,40373	1 10207,30177	1 48814,14370	9,86956,61599,1519	10,04221,03696	46:48
	11,72937,63557	38,64401	28,61634	6,87903,4185	15,23114	
77	74045,27826,76816	1 10168,65776	1 48785,52736	9,86949,73695,7334	10,04205,80582	46:12
	11,73163,19038	38,62916	28,60080	6,88144,7112	15,23062	
76	74033,54663,57778	1 10130,02860	1 48756,92656	9,86942,85551,0222	10,04190,57520	45:36
	11,73388,70946	38,61432	28,58528	6,88386,0805	15,23011	
75	74021,81274,86832	1 10091,41428	1 48728,34128	9,86935,97164,9417	10,04175,34509	45: 0
	11,73614,19279	38,59947	28,56977	6,88627,5263	15,22960	
74	74010,07660,67553	1 10052,81481	1 48699,77151	9,86929,08537,4154	10,04160,11549	44:24
	11,73839,64039	38,58465	28,55426	6,88869,0486	15,22908	
73	73998,33821,03514	1 10014,23016	1 48671,21725	9,86922,19668,3668	10,04144,88641	43:48
	11,74065,05220	38,56984	28,53878	6,89110,6477	15,22858	
72	73986,59755,98294	1 09975,66032	1 48642,67847	9,86915,30557,7191	10,04129,65783	43:12
	11,74290,42828	38,55503	28,52329	6,89352,3233	15,22807	
71	73974,85465,55466	1 09937,10529	1 48614,15518	9,86908,41205,3958	10,04114,42976	42:36
	11,74515,76856	38,54024	28,50782	6,89594,0757	15,22757	
70	73963,10949,78610	1 09898,56505	1 48585,64736	9,86901,51611,3201	10,04099,20219	42: 0
	11,74741,07308	38,52545	28,49237	6,89835,9049	15,22707	
69	73951,36208,71302	1 09860,03960	1 48557,15499	9,86894,61775,4152	10,04083,97512	41:24
	11,74966,34182	38,51069	28,47691	6,90077,8109	15,22656	
68	73939,61242,37120	1 09821,52891	1 48528,67808	9,86887,71697,6043	10,04068,74856	40:48
	11,75191,57475	38,49593	28,46148	6,90319,7939	15,22607	
67	73927,86050,79645	1 09783,03298	1 48500,21660	9,86880,81377,8104	10,04053,52249	40:12
	11,75416,77189	38,48117	28,44605	6,90561,8537	15,22557	

GRAD. 47.

42. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	67339,96911,72704	91088,75687	1 35267,00125	9,82827,29128,8067	9,95946,47751	19:48
	12,90182,00363	31,93965	21,51021	8,31995,1176	15,22557	
34	67352,87093,73067	91120,69652	1 35288,51146	9,82835,61123,9243	9,95961,70308	20:24
	12,89976,83506	31,94981	21,52118	8,31703,4913	15,22507	
35	67365,77070,56573	91152,64633	1 35310,03264	9,82843,92827,4156	9,95976,92815	21: 0
	12,89771,62718	31,95998	21,53215	8,31411,9765	15,22459	
36	67378,66842,19291	91184,60631	1 35331,56479	9,82852,24239,3921	9,95992,15274	21:36
	12,89566,38002	31,97015	21,54312	8,31120,5734	15,22409	
37	67391,56408,57293	91216,57646	1 35353,10791	9,82860,55359,9655	9,96007,37683	22:12
	12,89361,09358	31,98033	21,55411	8,30829,2818	15,22360	
38	67404,45769,66651	91248,55679	1 35374,66202	9,82868,86189,2473	9,96022,60043	22:48
	12,89155,76786	31,99052	21,56510	8,30538,1016	15,22311	
39	67417,34925,43437	91280,54731	1 35396,22712	9,82877,16727,3489	9,96037,82354	23:24
	12,88950,40286	32,00072	21,57610	8,30247,0328	15,22263	
40	67430,23875,83723	91312,54803	1 35417,80322	9,82885,46974,3817	9,96053,04617	24: 0
	12,88744,99862	32,01092	21,58710	8,29956,0752	15,22215	
41	67443,12620,83585	91344,55895	1 35439,39032	9,82893,76930,4569	9,96068,26832	24:36
	12,88539,55511	32,02112	21,59811	8,29665,2288	15,22166	
42	67456,01160,39096	91376,58007	1 35460,98843	9,82902,06595,6857	9,96083,48998	25:12
	12,88334,07234	32,03134	21,60913	8,29374,4936	15,22118	
43	67468,89494,46330	91408,61141	1 35482,59756	9,82910,35970,1793	9,96098,71116	25:48
	12,88128,55034	32,04157	21,62015	8,29083,8692	15,22071	
44	67481,77623,01364	91440,65298	1 35504,21771	9,82918,65054,0485	9,96113,93187	26:24
	12,87922,98909	32,05179	21,63118	8,28793,3560	15,22023	
45	67494,65546,00273	91472,70477	1 35525,84889	9,82926,93847,4045	9,96129,15210	27: 0
	12,87717,38861	32,06203	21,64222	8,28502,9535	15,21975	
46	67507,53263,39134	91504,76680	1 35547,49111	9,82935,22350,3580	9,96144,37185	27:36
	12,87511,74892	32,07227	21,65326	8,28212,6618	15,21929	
47	67520,40775,14026	91536,83907	1 35569,14437	9,82943,50563,0198	9,96159,59114	28:12
	12,87306,06998	32,08252	21,66432	8,27922,4808	15,21881	
48	67533,28081,21024	91568,92159	1 35590,80869	9,82951,78485,5006	9,96174,80995	28:48
	12,87100,35186	32,09277	21,67537	8,27632,4105	15,21834	
49	67546,15181,56210	91601,01436	1 35612,48406	9,82960,06117,9111	9,96190,02829	29:24
	12,86894,59450	32,10304	21,68643	8,27342,4507	15,21788	
50	67559,02076,15660	91633,11740	1 35634,17049	9,82968,33460,3618	9,96205,24617	30: 0
	12,86688,79796	32,11331	21,69750	8,27052,6012	15,21741	
51	67571,88764,95456	91665,23071	1 35655,86799	9,82976,60512,9630	9,96220,46358	30:36
	12,86482,96223	32,12359	21,70858	8,26762,8623	15,21695	
52	67584,75247,91679	91697,35430	1 35677,57657	9,82984,87275,8253	9,96235,68053	31:12
	12,86277,08729	32,13387	21,71967	8,26473,2336	15,21649	
53	67597,61525,00408	91729,48817	1 35699,29624	9,82993,13749,0589	9,96250,89702	31:48
	12,86071,17318	32,14416	21,73075	8,26183,7151	15,21603	
54	67610,47596,17726	91761,63233	1 35721,02699	9,83001,39932,7740	9,96266,11305	32:24
	12,85865,21989	32,15446	21,74185	8,25894,3067	15,21558	
55	67623,33461,39715	91793,78679	1 35742,76884	9,83009,65827,0807	9,96281,32863	33: 0
	12,85659,22744	32,16476	21,75296	8,25605,0084	15,21511	
56	67636,19120,62459	91825,95155	1 35764,52180	9,83017,91432,0891	9,96296,54374	33:36
	12,85453,19582	32,17508	21,76406	8,25315,8201	15,21467	
57	67649,04573,82041	91858,12663	1 35786,28586	9,83026,16747,9092	9,96311,75841	34:12
	12,85247,12504	32,18539	21,77518	8,25026,7416	15,21421	
58	67661,89820,94545	91890,31202	1 35808,06104	9,83034,41774,6508	9,96326,97262	34:48
	12,85041,01512	32,19572	21,78630	8,24737,7730	15,21376	
59	67674,74861,96057	91922,50774	1 35829,84734	9,83042,66512,4238	9,96342,18638	35:24
	12,84834,86604	32,20605	21,79744	8,24448,9141	15,21332	
60	67687,59696,82661	91954,71379	1 35851,64478	9,83050,90961,3379	9,96357,39970	36: 0
	12,84628,67783	32,21639	21,80857	8,24160,1649	15,21287	
61	67700,44325,50444	91986,93018	1 35873,45335	9,83059,15121,5028	9,96372,61257	36:36
	12,84422,45048	32,22674	21,81971	8,23871,5252	15,21242	
62	67713,28747,95492	92019,15692	1 35895,27306	9,83067,38993,0280	9,96387,82499	37:12
	12,84216,18402	32,23709	21,83086	8,23582,9950	15,21199	
63	67726,12964,13894	92051,39401	1 35917,10392	9,83075,62576,0230	9,96403,03698	37:48
	12,84009,87843	32,24745	21,84202	8,23294,5742	15,21154	
64	67738,96974,01737	92083,64146	1 35938,94594	9,83083,85870,5972	9,96418,24852	38:24
	12,83803,53373	32,25781	21,85319	8,23006,2627	15,21110	
65	67751,80777,55110	92115,89927	1 35960,79913	9,83092,08876,8599	9,96433,45962	39: 0
	12,83597,14992	32,26820	21,86435	8,22718,0606	15,21067	
66	67764,64374,70102	92148,16747	1 35982,66348	9,83100,31594,9205	9,96448,67029	39:36
	12,83390,72701	32,27857	21,87553	8,22429,9676	15,21023	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	73927,86050,79645	1 09783,03298	1 48500,21660	9,86880,81377,8104	10,04053,52249	40:12
	11,75416,77189	38,48117	28,44605	6,90561,8537	15,22557	
66	73916,10634,02456	1 09744,55181	1 48471,77055	9,86873,90815,9567	10,04038,29692	39:36
	11,75641,93322	38,46644	28,43063	6,90803,9906	15,22507	
65	73904,34992,09134	1 09706,08537	1 48443,33992	9,86867,00011,9661	10,04023,07185	39: 0
	11,75867,05875	38,45171	28,41522	6,91046,2045	15,22459	
64	73892,59125,03259	1 09667,63366	1 48414,92470	9,86860,08965,7616	10,04007,84726	38:24
	11,76092,14846	38,43699	28,39983	6,91288,4954	15,22409	
63	73880,83032,88413	1 09629,19667	1 48386,52487	9,86853,17677,2662	10,03992,62317	37:48
	11,76317,20233	38,42229	28,38445	6,91530,8636	15,22360	
62	73869,06715,68180	1 09590,77438	1 48358,14042	9,86846,26146,4026	10,03977,39957	37:12
	11,76542,22038	38,40759	28,36907	6,91773,3089	15,22311	
61	73857,30173,46142	1 09552,36679	1 48329,77135	9,86839,34373,0937	10,03962,17646	36:36
	11,76767,20258	38,39291	28,35371	6,92015,8316	15,22263	
60	73845,53406,25884	1 09513,97388	1 48301,41764	9,86832,42357,2621	10,03946,95383	36: 0
	11,76992,14895	38,37823	28,33835	6,92258,4313	15,22215	
59	73833,76414,10989	1 09475,59565	1 48273,07929	9,86825,50098,8308	10,03931,73168	35:24
	11,77217,05945	38,36357	28,32301	6,92501,1087	15,22166	
58	73821,99197,05044	1 09437,23208	1 48244,75628	9,86818,57597,7221	10,03916,51002	34:48
	11,77441,93410	38,34892	28,30767	6,92743,8632	15,22118	
57	73810,21755,11634	1 09398,88316	1 48216,44861	9,86811,64853,8589	10,03901,28884	34:12
	11,77666,77287	38,33427	28,29236	6,92986,6954	15,22071	
56	73798,44088,34347	1 09360,54889	1 48188,15625	9,86804,71867,1635	10,03886,06813	33:36
	11,77891,57579	38,31965	28,27704	6,93229,6049	15,22023	
55	73786,66196,76768	1 09322,22924	1 48159,87921	9,86797,78637,5586	10,03870,84790	33: 0
	11,78116,34280	38,30502	28,26175	6,93472,5921	15,21975	
54	73774,88080,42488	1 09283,92422	1 48131,61746	9,86790,85164,9665	10,03855,62815	32:24
	11,78341,07395	38,29042	28,24645	6,93715,6569	15,21929	
53	73763,09739,35093	1 09245,63380	1 48103,37101	9,86783,91449,3096	10,03840,40886	31:48
	11,78565,76919	38,27581	28,23117	6,93958,7993	15,21881	
52	73751,31173,58174	1 09207,35799	1 48075,13984	9,86776,97490,5103	10,03825,19005	31:12
	11,78790,42853	38,26123	28,21590	6,94202,0195	15,21834	
51	73739,52383,15321	1 09169,09676	1 48046,92394	9,86770,03288,4908	10,03809,97171	30:36
	11,79015,05197	38,24665	28,20065	6,94445,3174	15,21788	
50	73727,73368,10124	1 09130,85011	1 48018,72329	9,86763,08843,1734	10,03794,75383	30: 0
	11,79239,63949	38,23209	28,18539	6,94688,6931	15,21741	
49	73715,94128,46175	1 09092,61802	1 47990,53790	9,86756,14154,4803	10,03779,53642	29:24
	11,79464,19108	38,21752	28,17016	6,94932,1468	15,21695	
48	73704,14664,27067	1 09054,40050	1 47962,36774	9,86749,19222,3335	10,03764,31947	28:48
	11,79688,70675	38,20299	28,15493	6,95175,6782	15,21649	
47	73692,34975,56392	1 09016,19751	1 47934,21281	9,86742,24046,6553	10,03749,10298	28:12
	11,79913,18649	38,18844	28,13971	6,95419,2878	15,21603	
46	73680,55062,37743	1 08978,00907	1 47906,07310	9,86735,28627,3675	10,03733,88695	27:36
	11,80137,63028	38,17393	28,12450	6,95662,9754	15,21558	
45	73668,74924,74715	1 08939,83514	1 47877,94860	9,86728,32964,3921	10,03718,67137	27: 0
	11,80362,03812	38,15940	28,10931	6,95906,7409	15,21511	
44	73656,94562,70903	1 08901,67574	1 47849,83929	9,86721,37057,6512	10,03703,45626	26:24
	11,80586,41001	38,14491	28,09412	6,96150,5848	15,21467	
43	73645,13976,29902	1 08863,53083	1 47821,74517	9,86714,40907,0664	10,03688,24159	25:48
	11,80810,74593	38,13041	28,07895	6,96394,5066	15,21421	
42	73633,33165,55309	1 08825,40042	1 47793,66622	9,86707,44512,5598	10,03673,02738	25:12
	11,81035,04588	38,11594	28,06378	6,96638,5069	15,21376	
41	73621,52130,50721	1 08787,28448	1 47765,60244	9,86700,47874,0529	10,03657,81362	24:36
	11,81259,30987	38,10146	28,04862	6,96882,5853	15,21332	
40	73609,70871,19734	1 08749,18302	1 47737,55382	9,86693,50991,4676	10,03642,60030	24: 0
	11,81483,53786	38,08699	28,03348	6,97126,7421	15,21287	
39	73597,89387,65948	1 08711,09603	1 47709,52034	9,86686,53864,7255	10,03627,38743	23:24
	11,81707,72986	38,07255	28,01834	6,97370,9774	15,21242	
38	73586,07679,92962	1 08673,02348	1 47681,50200	9,86679,56493,7481	10,03612,17501	22:48
	11,81931,88587	38,05811	28,00323	6,97615,2910	15,21199	
37	73574,25748,04375	1 08634,96537	1 47653,49877	9,86672,58878,4571	10,03596,96302	22:12
	11,82156,00588	38,04368	27,98810	6,97859,6832	15,21154	
36	73562,43592,03787	1 08596,92169	1 47625,51067	9,86665,61018,7739	10,03581,75148	21:36
	11,82380,08987	38,02926	27,97301	6,98104,1539	15,21110	
35	73550,61211,94800	1 08558,89243	1 47597,53766	9,86658,62914,6200	10,03566,54038	21: 0
	11,82604,13784	38,01486	27,95790	6,98348,7032	15,21067	
34	73538,78607,81016	1 08520,87757	1 47569,57976	9,86651,64565,9168	10,03551,32971	20:24
	11,82828,14980	38,00045	27,94283	6,98593,3312	15,21023	

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42. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	67777,47765,42803	92180,44604	1 36004,53901	9,83108,54024,8881	9,96463,88052	40:12
	12,83184,26501	32,28896	21,88672	8,22141,9836	15,20980	
68	67790,30949,69304	92212,73500	1 36026,42573	9,83116,76166,8717	9,96479,09032	40:48
	12,82977,76392	32,29935	21,89790	8,21854,1087	15,20937	
69	67803,13927,45696	92245,03435	1 36048,32363	9,83124,98020,9804	9,96494,29969	41:24
	12,82771,22375	32,30976	21,90910	8,21566,3428	15,20894	
70	67815,96698,68071	92277,34411	1 36070,23273	9,83133,19587,3232	9,96509,50863	42: 0
	12,82564,64449	32,32016	21,92031	8,21278,6856	15,20852	
71	67828,79263,32520	92309,66427	1 36092,15304	9,83141,40866,0088	9,96524,71715	42:36
	12,82358,02618	32,33059	21,93151	8,20991,1372	15,20808	
72	67841,61621,35138	92341,99486	1 36114,08455	9,83149,61857,1460	9,96539,92523	43:12
	12,82151,36880	32,34100	21,94274	8,20703,6976	15,20767	
73	67854,43772,72018	92374,33586	1 36136,02729	9,83157,82560,8436	9,96555,13290	43:48
	12,81944,67236	32,35143	21,95396	8,20416,3666	15,20724	
74	67867,25717,39254	92406,68729	1 36157,98125	9,83166,02977,2102	9,96570,34014	44:24
	12,81737,93688	32,36188	21,96518	8,20129,1440	15,20682	
75	67880,07455,32942	92439,04917	1 36179,94643	9,83174,23106,3542	9,96585,54696	45: 0
	12,81531,16234	32,37231	21,97643	8,19842,0300	15,20641	
76	67892,88986,49176	92471,42148	1 36201,92286	9,83182,42948,3842	9,96600,75337	45:36
	12,81324,34878	32,38277	21,98767	8,19555,0244	15,20599	
77	67905,70310,84054	92503,80425	1 36223,91053	9,83190,62503,4086	9,96615,95936	46:12
	12,81117,49617	32,39322	21,99892	8,19268,1270	15,20558	
78	67918,51428,33671	92536,19747	1 36245,90945	9,83198,81771,5356	9,96631,16494	46:48
	12,80910,60455	32,40369	22,01018	8,18981,3378	15,20516	
79	67931,32338,94126	92568,60116	1 36267,91963	9,83207,00752,8734	9,96646,37010	47:24
	12,80703,67391	32,41416	22,02145	8,18694,6568	15,20475	
80	67944,13042,61517	92601,01532	1 36289,94108	9,83215,19447,5302	9,96661,57485	48: 0
	12,80496,70424	32,42464	22,03271	8,18408,0840	15,20435	
81	67956,93539,31941	92633,43996	1 36311,97379	9,83223,37855,6142	9,96676,77920	48:36
	12,80289,69559	32,43513	22,04400	8,18121,6189	15,20394	
82	67969,73829,01500	92665,87509	1 36334,01779	9,83231,55977,2331	9,96691,98314	49:12
	12,80082,64792	32,44562	22,05528	8,17835,2620	15,20353	
83	67982,53911,66292	92698,32071	1 36356,07307	9,83239,73812,4951	9,96707,18667	49:48
	12,79875,56127	32,45612	22,06657	8,17549,0127	15,20313	
84	67995,33787,22419	92730,77683	1 36378,13964	9,83247,91361,5078	9,96722,38980	50:24
	12,79668,43563	32,46663	22,07787	8,17262,8713	15,20273	
85	68008,13455,65982	92763,24346	1 36400,21751	9,83256,08624,3791	9,96737,59253	51: 0
	12,79461,27100	32,47714	22,08918	8,16976,8374	15,20233	
86	68020,92916,93082	92795,72060	1 36422,30669	9,83264,25601,2165	9,96752,79486	51:36
	12,79254,06740	32,48767	22,10049	8,16690,9113	15,20194	
87	68033,72170,99822	92828,20827	1 36444,40718	9,83272,42292,1278	9,96767,99680	52:12
	12,79046,82483	32,49819	22,11181	8,16405,0927	15,20154	
88	68046,51217,82305	92860,70646	1 36466,51899	9,83280,58697,2205	9,96783,19834	52:48
	12,78839,54331	32,50873	22,12313	8,16119,3813	15,20114	
89	68059,30057,36636	92893,21519	1 36488,64212	9,83288,74816,6018	9,96798,39948	53:24
	12,78632,22282	32,51927	22,13447	8,15833,7776	15,20075	
90	68072,08689,58918	92925,73446	1 36510,77659	9,83296,90650,3794	9,96813,60023	54: 0
	12,78424,86338	32,52983	22,14581	8,15548,2809	15,20037	
91	68084,87114,45256	92958,26429	1 36532,92240	9,83305,06198,6603	9,96828,80060	54:36
	12,78217,46501	32,54038	22,15715	8,15262,8915	15,19998	
92	68097,65331,91757	92990,80467	1 36555,07955	9,83313,21461,5518	9,96844,00058	55:12
	12,78010,02770	32,55094	22,16851	8,14977,6093	15,19959	
93	68110,43341,94527	93023,35561	1 36577,24806	9,83321,36439,1611	9,96859,20017	55:48
	12,77802,55145	32,56151	22,17987	8,14692,4341	15,19920	
94	68123,21144,49672	93055,91712	1 36599,42793	9,83329,51131,5952	9,96874,39937	56:24
	12,77595,03628	32,57210	22,19124	8,14407,3658	15,19883	
95	68135,98739,53300	93088,48922	1 36621,61917	9,83337,65538,9610	9,96889,59820	57: 0
	12,77387,48220	32,58268	22,20261	8,14122,4045	15,19844	
96	68148,76127,01520	93121,07190	1 36643,82178	9,83345,79661,3655	9,96904,79664	57:36
	12,77179,88920	32,59327	22,21399	8,13837,5500	15,19807	
97	68161,53306,90440	93153,66517	1 36666,03577	9,83353,93498,9155	9,96919,99471	58:12
	12,76972,25729	32,60387	22,22539	8,13552,8021	15,19769	
98	68174,30279,16169	93186,26904	1 36688,26116	9,83362,07051,7176	9,96935,19240	58:48
	12,76764,58650	32,61448	22,23677	8,13268,1611	15,19731	
99	68187,07043,74819	93218,88352	1 36710,49793	9,83370,20319,8787	9,96950,38971	59:24
	12,76556,87680	32,62509	22,24818	8,12983,6265	15,19694	
100	68199,83600,62499	93251,50861	1 36732,74611	9,83378,33303,5052	9,96965,58665	60: 0
	12,76349,12821	32,63572	22,25959	8,12699,1985	15,19657	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	73526,95779,66036	1 08482,87712	1 47541,63693	9,86644,65972,5856	10,03536,11948	19:48
	11,83052,12572	37,98607	27,92776	6,98838,0379	15,20980	
32	73515,12727,53464	1 08444,89105	1 47513,70917	9,86637,67134,5477	10,03520,90968	19:12
	11,83276,06560	37,97169	27,91269	6,99082,8234	15,20937	
31	73503,29451,46904	1 08406,91936	1 47485,79648	9,86630,68051,7243	10,03505,70031	18:36
	11,83499,96944	37,95733	27,89764	6,99327,6877	15,20894	
30	73491,45951,49960	1 08368,96203	1 47457,89884	9,86623,68724,0366	10,03490,49137	18: 0
	11,83723,83723	37,94297	27,88259	6,99572,6308	15,20852	
29	73479,62227,66237	1 08331,01906	1 47430,01625	9,86616,69151,4058	10,03475,28285	17:24
	11,83947,66896	37,92862	27,86757	6,99817,6529	15,20808	
28	73467,78279,99341	1 08293,09044	1 47402,14868	9,86609,69333,7529	10,03460,07477	16:48
	11,84171,46462	37,91429	27,85254	7,00062,7540	15,20767	
27	73455,94108,52879	1 08255,17615	1 47374,29614	9,86602,69270,9989	10,03444,86710	16:12
	11,84395,22421	37,89997	27,83753	7,00307,9340	15,20724	
26	73444,09713,30458	1 08217,27618	1 47346,45861	9,86595,68963,0649	10,03429,65986	15:36
	11,84618,94772	37,88565	27,82253	7,00553,1932	15,20682	
25	73432,25094,35686	1 08179,39053	1 47318,63608	9,86588,68409,8717	10,03414,45304	15: 0
	11,84842,63516	37,87135	27,80754	7,00798,5316	15,20641	
24	73420,40251,72170	1 08141,51918	1 47290,82854	9,86581,67611,3401	10,03399,24663	14:24
	11,85066,28649	37,85705	27,79256	7,01043,9490	15,20599	
23	73408,55185,43521	1 08103,66213	1 47263,03598	9,86574,66567,3911	10,03384,04064	13:48
	11,85289,90172	37,84277	27,77759	7,01289,4458	15,20558	
22	73396,69895,53349	1 08065,81936	1 47235,25839	9,86567,65277,9453	10,03368,83506	13:12
	11,85513,48085	37,82850	27,76263	7,01535,0218	15,20516	
21	73384,84382,05264	1 08027,99086	1 47207,49576	9,86560,63742,9235	10,03353,62990	12:36
	11,85737,02388	37,81424	27,74767	7,01780,6772	15,20475	
20	73372,98645,02876	1 07990,17662	1 47179,74809	9,86553,61962,2463	10,03338,42515	12: 0
	11,85960,53077	37,79999	27,73274	7,02026,4121	15,20435	
19	73361,12684,49799	1 07952,37663	1 47152,01535	9,86546,59935,8342	10,03323,22080	11:24
	11,86184,00154	37,78574	27,71781	7,02272,2262	15,20394	
18	73349,26500,49645	1 07914,59089	1 47124,29754	9,86539,57663,6080	10,03308,01686	10:48
	11,86407,43617	37,77151	27,70289	7,02518,1201	15,20353	
17	73337,40093,06028	1 07876,81938	1 47096,59465	9,86532,55145,4879	10,03292,81333	10:12
	11,86630,83468	37,75730	27,68797	7,02764,0934	15,20313	
16	73325,53462,22560	1 07839,06208	1 47068,90668	9,86525,52381,3945	10,03277,61020	9:36
	11,86854,19703	37,74308	27,67308	7,03010,1463	15,20273	
15	73313,66608,02857	1 07801,31900	1 47041,23360	9,86518,49371,2482	10,03262,40747	9: 0
	11,87077,52322	37,72888	27,65819	7,03256,2790	15,20233	
14	73301,79530,50535	1 07763,59012	1 47013,57541	9,86511,46114,9692	10,03247,20514	8:24
	11,87300,81326	37,71469	27,64331	7,03502,4913	15,20194	
13	73289,92229,69209	1 07725,87543	1 46985,93210	9,86504,42612,4779	10,03232,00320	7:48
	11,87524,06713	37,70052	27,62844	7,03748,7834	15,20154	
12	73278,04705,62496	1 07688,17491	1 46958,30366	9,86497,38863,6945	10,03216,80166	7:12
	11,87747,28483	37,68634	27,61357	7,03995,1554	15,20114	
11	73266,16958,34013	1 07650,48857	1 46930,69009	9,86490,34868,5391	10,03201,60052	6:36
	11,87970,46634	37,67219	27,59873	7,04241,6072	15,20075	
10	73254,28987,87379	1 07612,81638	1 46903,09136	9,86483,30626,9319	10,03186,39977	6: 0
	11,88193,61167	37,65804	27,58390	7,04488,1391	15,20037	
9	73242,40794,26212	1 07575,15834	1 46875,50746	9,86476,26138,7928	10,03171,19940	5:24
	11,88416,72080	37,64389	27,56906	7,04734,7508	15,19998	
8	73230,52377,54132	1 07537,51445	1 46847,93840	9,86469,21404,0420	10,03155,99942	4:48
	11,88639,79374	37,62978	27,55424	7,04981,4426	15,19959	
7	73218,63737,74758	1 07499,88467	1 46820,38416	9,86462,16422,5994	10,03140,79983	4:12
	11,88862,83045	37,61565	27,53943	7,05228,2146	15,19920	
6	73206,74874,91713	1 07462,26902	1 46792,84473	9,86455,11194,3848	10,03125,60063	3:36
	11,89085,83097	37,60154	27,52464	7,05475,0667	15,19883	
5	73194,85789,08616	1 07424,66748	1 46765,32009	9,86448,05719,3181	10,03110,40180	3: 0
	11,89308,79525	37,58745	27,50984	7,05721,9990	15,19844	
4	73182,96480,29091	1 07387,08003	1 46737,81025	9,86440,99997,3191	10,03095,20336	2:24
	11,89531,72331	37,57336	27,49507	7,05969,0115	15,19807	
3	73171,06948,56760	1 07349,50667	1 46710,31518	9,86433,94028,3076	10,03080,00529	1:48
	11,89754,61513	37,55929	27,48029	7,06216,1045	15,19769	
2	73159,17193,95247	1 07311,94738	1 46682,83489	9,86426,87812,2031	10,03064,80760	1:12
	11,89977,47072	37,54522	27,46554	7,06463,2777	15,19731	
1	73147,27216,48175	1 07274,40216	1 46655,36935	9,86419,81348,9254	10,03049,61029	0:36
	11,90200,29005	37,53116	27,45079	7,06710,5314	15,19694	
0	73135,37016,19170	1 07236,87100	1 46627,91856	9,86412,74638,3940	10,03034,41335	0: 0
	11,90423,07312	37,51711	27,43604	7,06957,8656	15,19657	

GRAD. 47.

43. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
0	68199,83600,62499	93251,50861	1 36732,74611	9,83378,33303,5052	9,96965,58665	0: 0
	12,76349,12821	32,63572	22,25959	8,12699,1985	15,19657	
1	68212,59949,75320	93284,14433	1 36755,00570	9,83386,46002,7037	9,96980,78322	0:36
	12,76141,34076	32,64634	22,27100	8,12414,8769	15,19620	
2	68225,36091,09396	93316,79067	1 36777,27670	9,83394,58417,5806	9,96995,97942	1:12
	12,75933,51443	32,65698	22,28243	8,12130,6616	15,19584	
3	68238,12024,60839	93349,44765	1 36799,55913	9,83402,70548,2422	9,97011,17526	1:48
	12,75725,64923	32,66763	22,29385	8,11846,5527	15,19547	
4	68250,87750,25762	93382,11528	1 36821,85298	9,83410,82394,7949	9,97026,37073	2:24
	12,75517,74516	32,67827	22,30529	8,11562,5499	15,19510	
5	68263,63268,00278	93414,79355	1 36844,15827	9,83418,93957,3448	9,97041,56583	3: 0
	12,75309,80225	32,68893	22,31674	8,11278,6532	15,19475	
6	68276,38577,80503	93447,48248	1 36866,47501	9,83427,05235,9980	9,97056,76058	3:36
	12,75101,82048	32,69959	22,32819	8,10994,8627	15,19438	
7	68289,13679,62551	93480,18207	1 36888,80320	9,83435,16230,8607	9,97071,95496	4:12
	12,74893,79988	32,71027	22,33964	8,10711,1780	15,19403	
8	68301,88573,42539	93512,89234	1 36911,14284	9,83443,26942,0387	9,97087,14899	4:48
	12,74685,74044	32,72095	22,35111	8,10427,5992	15,19367	
9	68314,63259,16583	93545,61329	1 36933,49395	9,83451,37369,6379	9,97102,34266	5:24
	12,74477,64216	32,73163	22,36258	8,10144,1264	15,19331	
10	68327,37736,80799	93578,34492	1 36955,85653	9,83459,47513,7643	9,97117,53597	6: 0
	12,74269,50507	32,74232	22,37406	8,09860,7591	15,19297	
11	68340,12006,31306	93611,08724	1 36978,23059	9,83467,57374,5234	9,97132,72894	6:36
	12,74061,32917	32,75303	22,38554	8,09577,4977	15,19261	
12	68352,86067,64223	93643,84027	1 37000,61613	9,83475,66952,0211	9,97147,92155	7:12
	12,73853,11444	32,76374	22,39704	8,09294,3417	15,19227	
13	68365,59920,75667	93676,60401	1 37023,01317	9,83483,76246,3628	9,97163,11382	7:48
	12,73644,86092	32,77445	22,40854	8,09011,2913	15,19192	
14	68378,33565,61759	93709,37846	1 37045,42171	9,83491,85257,6541	9,97178,30574	8:24
	12,73436,56859	32,78517	22,42004	8,08728,3463	15,19157	
15	68391,07002,18618	93742,16363	1 37067,84175	9,83499,93986,0004	9,97193,49731	9: 0
	12,73228,23749	32,79590	22,43155	8,08445,5067	15,19123	
16	68403,80230,42367	93774,95953	1 37090,27330	9,83508,02431,5071	9,97208,68854	9:36
	12,73019,86759	32,80664	22,44308	8,08162,7723	15,19089	
17	68416,53250,29126	93807,76617	1 37112,71638	9,83516,10594,2794	9,97223,87943	10:12
	12,72811,45891	32,81738	22,45461	8,07880,1432	15,19055	
18	68429,26061,75017	93840,58355	1 37135,17099	9,83524,18474,4226	9,97239,06998	10:48
	12,72603,01147	32,82814	22,46614	8,07597,6192	15,19021	
19	68441,98664,76164	93873,41169	1 37157,63713	9,83532,26072,0418	9,97254,26019	11:24
	12,72394,52525	32,83889	22,47768	8,07315,2002	15,18988	
20	68454,71059,28689	93906,25058	1 37180,11481	9,83540,33387,2420	9,97269,45007	12: 0
	12,72186,00028	32,84966	22,48923	8,07032,8862	15,18955	
21	68467,43245,28717	93939,10024	1 37202,60404	9,83548,40420,1282	9,97284,63962	12:36
	12,71977,43655	32,86044	22,50078	8,06750,6772	15,18921	
22	68480,15222,72372	93971,96068	1 37225,10482	9,83556,47170,8054	9,97299,82883	13:12
	12,71768,83408	32,87121	22,51235	8,06468,5729	15,18888	
23	68492,86991,55780	94004,83189	1 37247,61717	9,83564,53639,3783	9,97315,01771	13:48
	12,71560,19287	32,88200	22,52392	8,06186,5735	15,18855	
24	68505,58551,75067	94037,71389	1 37270,14109	9,83572,59825,9518	9,97330,20626	14:24
	12,71351,51292	32,89280	22,53549	8,05904,6786	15,18823	
25	68518,29903,26359	94070,60669	1 37292,67658	9,83580,65730,6304	9,97345,39449	15: 0
	12,71142,79425	32,90360	22,54708	8,05622,8884	15,18791	
26	68531,01046,05784	94103,51029	1 37315,22366	9,83588,71353,5188	9,97360,58240	15:36
	12,70934,03685	32,91441	22,55867	8,05341,2027	15,18758	
27	68543,71980,09469	94136,42470	1 37337,78233	9,83596,76694,7215	9,97375,76998	16:12
	12,70725,24075	32,92523	22,57027	8,05059,6215	15,18726	
28	68556,42705,33544	94169,34993	1 37360,35260	9,83604,81754,3430	9,97390,95724	16:48
	12,70516,40592	32,93605	22,58187	8,04778,1446	15,18694	
29	68569,13221,74136	94202,28598	1 37382,93447	9,83612,86532,4876	9,97406,14418	17:24
	12,70307,53240	32,94689	22,59349	8,04496,7720	15,18663	
30	68581,83529,27376	94235,23287	1 37405,52796	9,83620,91029,2596	9,97421,33081	18: 0
	12,70098,62019	32,95772	22,60510	8,04215,5037	15,18631	
31	68594,53627,89395	94268,19059	1 37428,13306	9,83628,95244,7633	9,97436,51712	18:36
	12,69889,66928	32,96857	22,61674	8,03934,3395	15,18600	
32	68607,23517,56323	94301,15916	1 37450,74980	9,83636,99179,1028	9,97451,70312	19:12
	12,69680,67969	32,97943	22,62836	8,03653,2794	15,18568	
33	68619,93198,24292	94334,13859	1 37473,37816	9,83645,02832,3822	9,97466,88880	19:48
	12,69471,65143	32,99029	22,64001	8,03372,3233	15,18538	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
100	73135,37016,19170	1 07236,87100	1 46627,91856	9,86412,74638,3940	10,03034,41335	60: 0
	11,90423,07312	37,51711	27,43604	7,06957,8656	15,19657	
99	73123,46593,11858	1 07199,35389	1 46600,48252	9,86405,67680,5284	10,03019,21678	59:24
	11,90645,81994	37,50308	27,42132	7,07205,2802	15,19620	
98	73111,55947,29864	1 07161,85081	1 46573,06120	9,86398,60475,2482	10,03004,02058	58:48
	11,90868,53048	37,48905	27,40660	7,07452,7756	15,19584	
97	73099,65078,76816	1 07124,36176	1 46545,65460	9,86391,53022,4726	10,02988,82474	58:12
	11,91091,20476	37,47504	27,39189	7,07700,3516	15,19547	
96	73087,73987,56340	1 07086,88672	1 46518,26271	9,86384,45322,1210	10,02973,62927	57:36
	11,91313,84274	37,46103	27,37719	7,07948,0082	15,19510	
95	73075,82673,72066	1 07049,42569	1 46490,88552	9,86377,37374,1128	10,02958,43417	57: 0
	11,91536,44444	37,44704	27,36250	7,08195,7455	15,19475	
94	73063,91137,27622	1 07011,97865	1 46463,52302	9,86370,29178,3673	10,02943,23942	56:24
	11,91759,00984	37,43305	27,34782	7,08443,5638	15,19438	
93	73051,99378,26638	1 06974,54560	1 46436,17520	9,86363,20734,8035	10,02928,04504	55:48
	11,91981,53893	37,41907	27,33315	7,08691,4629	15,19403	
92	73040,07396,72745	1 06937,12653	1 46408,84205	9,86356,12043,3406	10,02912,85101	55:12
	11,92204,03173	37,40511	27,31849	7,08939,4429	15,19367	
91	73028,15192,69572	1 06899,72142	1 46381,52356	9,86349,03103,8977	10,02897,65734	54:36
	11,92426,48820	37,39116	27,30384	7,09187,5038	15,19331	
90	73016,22766,20752	1 06862,33026	1 46354,21972	9,86341,93916,3939	10,02882,46403	54: 0
	11,92648,90834	37,37721	27,28920	7,09435,6459	15,19297	
89	73004,30117,29918	1 06824,95305	1 46326,93052	9,86334,84480,7480	10,02867,27106	53:24
	11,92871,29217	37,36327	27,27457	7,09683,8689	15,19261	
88	72992,37246,00701	1 06787,58978	1 46299,65595	9,86327,74796,8791	10,02852,07845	52:48
	11,93093,63964	37,34935	27,25995	7,09932,1731	15,19227	
87	72980,44152,36737	1 06750,24043	1 46272,39600	9,86320,64864,7060	10,02836,88618	52:12
	11,93315,95078	37,33544	27,24534	7,10180,5585	15,19192	
86	72968,50836,41659	1 06712,90499	1 46245,15066	9,86313,54684,1475	10,02821,69426	51:36
	11,93538,22557	37,32153	27,23074	7,10429,0252	15,19157	
85	72956,57298,19102	1 06675,58346	1 46217,91992	9,86306,44255,1223	10,02806,50269	51: 0
	11,93760,46400	37,30763	27,21614	7,10677,5732	15,19123	
84	72944,63537,72702	1 06638,27583	1 46190,70378	9,86299,33577,5491	10,02791,31146	50:24
	11,93982,66606	37,29375	27,20157	7,10926,2025	15,19089	
83	72932,69555,06096	1 06600,98208	1 46163,50221	9,86292,22651,3466	10,02776,12057	49:48
	11,94204,83176	37,27988	27,18699	7,11174,9132	15,19055	
82	72920,75350,22920	1 06563,70220	1 46136,31522	9,86285,11476,4334	10,02760,93002	49:12
	11,94426,96108	37,26601	27,17243	7,11423,7054	15,19021	
81	72908,80923,26812	1 06526,43619	1 46109,14279	9,86278,00052,7280	10,02745,73981	48:36
	11,94649,05400	37,25216	27,15788	7,11672,5791	15,18988	
80	72896,86274,21412	1 06489,18403	1 46081,98491	9,86270,88380,1489	10,02730,54993	48: 0
	11,94871,11056	37,23831	27,14333	7,11921,5344	15,18955	
79	72884,91403,10356	1 06451,94572	1 46054,84158	9,86263,76458,6145	10,02715,36038	47:24
	11,95093,13069	37,22448	27,12881	7,12170,5714	15,18921	
78	72872,96309,97287	1 06414,72124	1 46027,71277	9,86256,64288,0431	10,02700,17117	46:48
	11,95315,11443	37,21065	27,11428	7,12419,6900	15,18888	
77	72861,00994,85844	1 06377,51059	1 46000,59849	9,86249,51868,3531	10,02684,98229	46:12
	11,95537,06177	37,19684	27,09977	7,12668,8903	15,18855	
76	72849,05457,79667	1 06340,31375	1 45973,49872	9,86242,39199,4628	10,02669,79374	45:36
	11,95758,97267	37,18303	27,08526	7,12918,1725	15,18823	
75	72837,09698,82400	1 06303,13072	1 45946,41346	9,86235,26281,2903	10,02654,60551	45: 0
	11,95980,84715	37,16924	27,07077	7,13167,5366	15,18791	
74	72825,13717,97685	1 06265,96148	1 45919,34269	9,86228,13113,7537	10,02639,41760	44:24
	11,96202,68521	37,15545	27,05629	7,13416,9825	15,18758	
73	72813,17515,29164	1 06228,80603	1 45892,28640	9,86220,99696,7712	10,02624,23002	43:48
	11,96424,48683	37,14168	27,04182	7,13666,5104	15,18726	
72	72801,21090,80481	1 06191,66435	1 45865,24458	9,86213,86030,2608	10,02609,04276	43:12
	11,96646,25199	37,12791	27,02734	7,13916,1203	15,18694	
71	72789,24444,55282	1 06154,53644	1 45838,21724	9,86206,72114,1405	10,02593,85582	42:36
	11,96867,98072	37,11416	27,01290	7,14165,8123	15,18663	
70	72777,27576,57210	1 06117,42228	1 45811,20434	9,86199,57948,3282	10,02578,66919	42: 0
	11,97089,67297	37,10041	26,99845	7,14415,5864	15,18631	
69	72765,30486,89913	1 06080,32187	1 45784,20589	9,86192,43532,7418	10,02563,48288	41:24
	11,97311,32876	37,08668	26,98401	7,14665,4428	15,18600	
68	72753,33175,57037	1 06043,23519	1 45757,22188	9,86185,28867,2990	10,02548,29688	40:48
	11,97532,94809	37,07295	26,96959	7,14915,3814	15,18568	
67	72741,35642,62228	1 06006,16224	1 45730,25229	9,86178,13951,9176	10,02533,11120	40:12
	11,97754,53093	37,05924	26,95517	7,15165,4022	15,18538	

GRAD. 46.

43. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	68619,93198,24292	94334,13859	1 37473,37816	9,83645,02832,3822	9,97466,88880	19:48
	12,69471,65143	32,99029	22,64001	8,03372,3233	15,18538	
34	68632,62669,89435	94367,12888	1 37496,01817	9,83653,06204,7055	9,97482,07418	20:24
	12,69262,58449	33,00115	22,65165	8,03091,4711	15,18507	
35	68645,31932,47884	94400,13003	1 37518,66982	9,83661,09296,1766	9,97497,25925	21: 0
	12,69053,47889	33,01203	22,66331	8,02810,7227	15,18477	
36	68658,00985,95773	94433,14206	1 37541,33313	9,83669,12106,8993	9,97512,44402	21:36
	12,68844,33463	33,02292	22,67497	8,02530,0782	15,18446	
37	68670,69830,29236	94466,16498	1 37564,00810	9,83677,14636,9775	9,97527,62848	22:12
	12,68635,15172	33,03381	22,68665	8,02249,5373	15,18415	
38	68683,38465,44408	94499,19879	1 37586,69475	9,83685,16886,5148	9,97542,81263	22:48
	12,68425,93017	33,04470	22,69831	8,01969,1001	15,18386	
39	68696,06891,37425	94532,24349	1 37609,39306	9,83693,18855,6149	9,97557,99649	23:24
	12,68216,66998	33,05561	22,71001	8,01688,7664	15,18356	
40	68708,75108,04423	94565,29910	1 37632,10307	9,83701,20544,3813	9,97573,18005	24: 0
	12,68007,37115	33,06653	22,72169	8,01408,5362	15,18327	
41	68721,43115,41538	94598,36563	1 37654,82476	9,83709,21952,9175	9,97588,36332	24:36
	12,67798,03371	33,07744	22,73339	8,01128,4094	15,18297	
42	68734,10913,44909	94631,44307	1 37677,55815	9,83717,23081,3269	9,97603,54629	25:12
	12,67588,65763	33,08838	22,74509	8,00848,3859	15,18267	
43	68746,78502,10672	94664,53145	1 37700,30324	9,83725,23929,7128	9,97618,72896	25:48
	12,67379,24295	33,09930	22,75681	8,00568,4657	15,18239	
44	68759,45881,34967	94697,63075	1 37723,06005	9,83733,24498,1785	9,97633,91135	26:24
	12,67169,78967	33,11026	22,76853	8,00288,6487	15,18210	
45	68772,13051,13934	94730,74101	1 37745,82858	9,83741,24786,8272	9,97649,09345	27: 0
	12,66960,29777	33,12120	22,78026	8,00008,9347	15,18181	
46	68784,80011,43711	94763,86221	1 37768,60884	9,83749,24795,7619	9,97664,27526	27:36
	12,66750,76729	33,13216	22,79198	7,99729,3238	15,18152	
47	68797,46762,20440	94796,99437	1 37791,40082	9,83757,24525,0857	9,97679,45678	28:12
	12,66541,19823	33,14312	22,80374	7,99449,8159	15,18124	
48	68810,13303,40263	94830,13749	1 37814,20456	9,83765,23974,9016	9,97694,63802	28:48
	12,66331,59057	33,15410	22,81547	7,99170,4108	15,18096	
49	68822,79634,99320	94863,29159	1 37837,02003	9,83773,23145,3124	9,97709,81898	29:24
	12,66121,94434	33,16508	22,82724	7,98891,1086	15,18069	
50	68835,45756,93754	94896,45667	1 37859,84727	9,83781,22036,4210	9,97724,99967	30: 0
	12,65912,25955	33,17607	22,83900	7,98611,9091	15,18040	
51	68848,11669,19709	94929,63274	1 37882,68627	9,83789,20648,3301	9,97740,18007	30:36
	12,65702,53619	33,18706	22,85076	7,98332,8122	15,18013	
52	68860,77371,73328	94962,81980	1 37905,53703	9,83797,18981,1423	9,97755,36020	31:12
	12,65492,77429	33,19806	22,86255	7,98053,8180	15,17985	
53	68873,42864,50757	94996,01786	1 37928,39958	9,83805,17034,9603	9,97770,54005	31:48
	12,65282,97382	33,20908	22,87433	7,97774,9262	15,17958	
54	68886,08147,48139	95029,22694	1 37951,27391	9,83813,14809,8865	9,97785,71963	32:24
	12,65073,13482	33,22009	22,88612	7,97496,1370	15,17931	
55	68898,73220,61621	95062,44703	1 37974,16003	9,83821,12306,0235	9,97800,89894	33: 0
	12,64863,25727	33,23112	22,89792	7,97217,4500	15,17904	
56	68911,38083,87348	95095,67815	1 37997,05795	9,83829,09523,4735	9,97816,07798	33:36
	12,64653,34121	33,24215	22,90973	7,96938,8654	15,17878	
57	68924,02737,21469	95128,92030	1 38019,96768	9,83837,06462,3389	9,97831,25676	34:12
	12,64443,38662	33,25319	22,92154	7,96660,3830	15,17851	
58	68936,67180,60131	95162,17349	1 38042,88922	9,83845,03122,7219	9,97846,43527	34:48
	12,64233,39350	33,26424	22,93336	7,96382,0027	15,17825	
59	68949,31413,99481	95195,43773	1 38065,82258	9,83852,99504,7246	9,97861,61352	35:24
	12,64023,36189	33,27529	22,94519	7,96103,7245	15,17799	
60	68961,95437,35670	95228,71302	1 38088,76777	9,83860,95608,4491	9,97876,79151	36: 0
	12,63813,29176	33,28636	22,95703	7,95825,5484	15,17772	
61	68974,59250,64846	95261,99938	1 38111,72480	9,83868,91433,9975	9,97891,96923	36:36
	12,63603,18313	33,29743	22,96887	7,95547,4741	15,17748	
62	68987,22853,83159	95295,29681	1 38134,69367	9,83876,86981,4716	9,97907,14671	37:12
	12,63393,03602	33,30851	22,98071	7,95269,5017	15,17721	
63	68999,86246,86761	95328,60532	1 38157,67438	9,83884,82250,9733	9,97922,32392	37:48
	12,63182,85042	33,31959	22,99258	7,94991,6312	15,17696	
64	69012,49429,71803	95361,92491	1 38180,66696	9,83892,77242,6045	9,97937,50088	38:24
	12,62972,62634	33,33068	23,00444	7,94713,8622	15,17671	
65	69025,12402,34437	95395,25559	1 38203,67140	9,83900,71956,4667	9,97952,67759	39: 0
	12,62762,36379	33,34179	23,01632	7,94436,1950	15,17646	
66	69037,75164,70816	95428,59738	1 38226,68772	9,83908,66392,6617	9,97967,85405	39:36
	12,62552,06277	33,35289	23,02819	7,94158,6293	15,17622	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	72741,35642,62228	1 06006,16224	1 45730,25229	9,86178,13951,9176	10,02533,11120	40:12
	11,97754,53093	37,05924	26,95517	7,15165,4022	15,18538	
66	72729,37888,09135	1 05969,10300	1 45703,29712	9,86170,98786,5154	10,02517,92582	39:36
	11,97976,07728	37,04553	26,94077	7,15415,5054	15,18507	
65	72717,39912,01407	1 05932,05747	1 45676,35635	9,86163,83371,0100	10,02502,74075	39: 0
	11,98197,58715	37,03183	26,92636	7,15665,6911	15,18477	
64	72705,41714,42692	1 05895,02564	1 45649,42999	9,86156,67705,3189	10,02487,55598	38:24
	11,98419,06052	37,01815	26,91199	7,15915,9592	15,18446	
63	72693,43295,36640	1 05858,00749	1 45622,51800	9,86149,51789,3597	10,02472,37152	37:48
	11,98640,49737	37,00447	26,89760	7,16166,3098	15,18415	
62	72681,44654,86903	1 05821,00302	1 45595,62040	9,86142,35623,0499	10,02457,18737	37:12
	11,98861,89772	36,99081	26,88323	7,16416,7431	15,18386	
61	72669,45792,97131	1 05784,01221	1 45568,73717	9,86135,19206,3068	10,02442,00351	36:36
	11,99083,26155	36,97715	26,86888	7,16667,2589	15,18356	
60	72657,46709,70976	1 05747,03506	1 45541,86829	9,86128,02539,0479	10,02426,81995	36: 0
	11,99304,58885	36,96350	26,85453	7,16917,8574	15,18327	
59	72645,47405,12091	1 05710,07156	1 45515,01376	9,86120,85621,1905	10,02411,63668	35:24
	11,99525,87962	36,94986	26,84019	7,17168,5387	15,18297	
58	72633,47879,24129	1 05673,12170	1 45488,17357	9,86113,68452,6518	10,02396,45371	34:48
	11,99747,13384	36,93624	26,82586	7,17419,3029	15,18267	
57	72621,48132,10745	1 05636,18546	1 45461,34771	9,86106,51033,3489	10,02381,27104	34:12
	11,99968,35153	36,92262	26,81154	7,17670,1498	15,18239	
56	72609,48163,75592	1 05599,26284	1 45434,53617	9,86099,33363,1991	10,02366,08865	33:36
	12,00189,53266	36,90902	26,79723	7,17921,0797	15,18210	
55	72597,47974,22326	1 05562,35382	1 45407,73894	9,86092,15442,1194	10,02350,90655	33: 0
	12,00410,67722	36,89541	26,78292	7,18172,0925	15,18181	
54	72585,47563,54604	1 05525,45841	1 45380,95602	9,86084,97270,0269	10,02335,72474	32:24
	12,00631,78523	36,88183	26,76864	7,18423,1884	15,18152	
53	72573,46931,76081	1 05488,57658	1 45354,18738	9,86077,78846,8385	10,02320,54322	31:48
	12,00852,85666	36,86825	26,75435	7,18674,3675	15,18124	
52	72561,46078,90415	1 05451,70833	1 45327,43303	9,86070,60172,4710	10,02305,36198	31:12
	12,01073,89151	36,85468	26,74009	7,18925,6295	15,18096	
51	72549,45005,01264	1 05414,85365	1 45300,69294	9,86063,41246,8415	10,02290,18102	30:36
	12,01294,88976	36,84112	26,72581	7,19176,9748	15,18069	
50	72537,43710,12288	1 05378,01253	1 45273,96713	9,86056,22069,8667	10,02275,00033	30: 0
	12,01515,85144	36,82757	26,71157	7,19428,4034	15,18040	
49	72525,42194,27144	1 05341,18496	1 45247,25556	9,86049,02641,4633	10,02259,81993	29:24
	12,01736,77651	36,81404	26,69732	7,19679,9154	15,18013	
48	72513,40457,49493	1 05304,37092	1 45220,55824	9,86041,82961,5479	10,02244,63980	28:48
	12,01957,66496	36,80050	26,68309	7,19931,5106	15,17985	
47	72501,38499,82997	1 05267,57042	1 45193,87515	9,86034,63030,0373	10,02229,45995	28:12
	12,02178,51682	36,78699	26,66886	7,20183,1892	15,17958	
46	72489,36321,31315	1 05230,78343	1 45167,20629	9,86027,42846,8481	10,02214,28037	27:36
	12,02399,33204	36,77347	26,65465	7,20434,9515	15,17931	
45	72477,33921,98111	1 05194,00996	1 45140,55164	9,86020,22411,8966	10,02199,10106	27: 0
	12,02620,11064	36,75997	26,64044	7,20686,7972	15,17904	
44	72465,31301,87047	1 05157,24999	1 45113,91120	9,86013,01725,0994	10,02183,92202	26:24
	12,02840,85261	36,74648	26,62624	7,20938,7264	15,17878	
43	72453,28461,01786	1 05120,50351	1 45087,28496	9,86005,80786,3730	10,02168,74324	25:48
	12,03061,55794	36,73300	26,61206	7,21190,7395	15,17851	
42	72441,25399,45992	1 05083,77051	1 45060,67290	9,85998,59595,6335	10,02153,56473	25:12
	12,03282,22661	36,71953	26,59787	7,21442,8361	15,17825	
41	72429,22117,23331	1 05047,05098	1 45034,07503	9,85991,38152,7974	10,02138,38648	24:36
	12,03502,85863	36,70607	26,58371	7,21695,0166	15,17799	
40	72417,18614,37468	1 05010,34491	1 45007,49132	9,85984,16457,7808	10,02123,20849	24: 0
	12,03723,45400	36,69262	26,56955	7,21947,2809	15,17772	
39	72405,14890,92068	1 04973,65229	1 44980,92177	9,85976,94510,4999	10,02108,03077	23:24
	12,03944,01270	36,67917	26,55541	7,22199,6291	15,17748	
38	72393,10946,90798	1 04936,97312	1 44954,36636	9,85969,72310,8708	10,02092,85329	22:48
	12,04164,53472	36,66574	26,54126	7,22452,0611	15,17721	
37	72381,06782,37326	1 04900,30738	1 44927,82510	9,85962,49858,8097	10,02077,67608	22:12
	12,04385,02006	36,65231	26,52713	7,22704,5773	15,17696	
36	72369,02397,35320	1 04863,65507	1 44901,29797	9,85955,27154,2324	10,02062,49912	21:36
	12,04605,46871	36,63890	26,51301	7,22957,1774	15,17671	
35	72356,97791,88449	1 04827,01617	1 44874,78496	9,85948,04197,0550	10,02047,32241	21: 0
	12,04825,88067	36,62550	26,49889	7,23209,8617	15,17646	
34	72344,92966,00382	1 04790,39067	1 44848,28607	9,85940,80987,1933	10,02032,14595	20:24
	12,05046,25592	36,61210	26,48480	7,23462,6302	15,17622	

GRAD. 46.

43. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	69050,37716,77093	95461,95027	1 38249,71591	9,83916,60551,2910	9,97983,03027	40:12
	12,62341,72330	33,36401	23,04008	7,93881,1651	15,17596	
68	69063,00058,49423	95495,31428	1 38272,75599	9,83924,54432,4561	9,97998,20623	40:48
	12,62131,34536	33,37513	23,05197	7,93603,8023	15,17573	
69	69075,62189,83959	95528,68941	1 38295,80796	9,83932,48036,2584	9,98013,38196	41:24
	12,61920,92899	33,38626	23,06388	7,93326,5409	15,17548	
70	69088,24110,76858	95562,07567	1 38318,87184	9,83940,41362,7993	9,98028,55744	42: 0
	12,61710,47418	33,39741	23,07579	7,93049,3808	15,17524	
71	69100,85821,24276	95595,47308	1 38341,94763	9,83948,34412,1801	9,98043,73268	42:36
	12,61499,98092	33,40855	23,08770	7,92772,3218	15,17500	
72	69113,47321,22368	95628,88163	1 38365,03533	9,83956,27184,5019	9,98058,90768	43:12
	12,61289,44924	33,41970	23,09962	7,92495,3640	15,17476	
73	69126,08610,67292	95662,30133	1 38388,13495	9,83964,19679,8659	9,98074,08244	43:48
	12,61078,87914	33,43086	23,11156	7,92218,5072	15,17453	
74	69138,69689,55206	95695,73219	1 38411,24651	9,83972,11898,3731	9,98089,25697	44:24
	12,60868,27063	33,44204	23,12349	7,91941,7515	15,17429	
75	69151,30557,82269	95729,17423	1 38434,37000	9,83980,03840,1246	9,98104,43126	45: 0
	12,60657,62371	33,45321	23,13544	7,91665,0966	15,17407	
76	69163,91215,44640	95762,62744	1 38457,50544	9,83987,95505,2212	9,98119,60533	45:36
	12,60446,93838	33,46439	23,14740	7,91388,5427	15,17383	
77	69176,51662,38478	95796,09183	1 38480,65284	9,83995,86893,7639	9,98134,77916	46:12
	12,60236,21467	33,47559	23,15935	7,91112,0894	15,17361	
78	69189,11898,59945	95829,56742	1 38503,81219	9,84003,78005,8533	9,98149,95277	46:48
	12,60025,45255	33,48678	23,17132	7,90835,7368	15,17338	
79	69201,71924,05200	95863,05420	1 38526,98351	9,84011,68841,5901	9,98165,12615	47:24
	12,59814,65207	33,49800	23,18330	7,90559,4850	15,17316	
80	69214,31738,70407	95896,55220	1 38550,16681	9,84019,59401,0751	9,98180,29931	48: 0
	12,59603,81320	33,50920	23,19528	7,90283,3335	15,17294	
81	69226,91342,51727	95930,06140	1 38573,36209	9,84027,49684,4086	9,98195,47225	48:36
	12,59392,93596	33,52044	23,20727	7,90007,2828	15,17271	
82	69239,50735,45323	95963,58184	1 38596,56936	9,84035,39691,6914	9,98210,64496	49:12
	12,59182,02036	33,53166	23,21927	7,89731,3322	15,17250	
83	69252,09917,47359	95997,11350	1 38619,78863	9,84043,29423,0236	9,98225,81746	49:48
	12,58971,06640	33,54290	23,23127	7,89455,4822	15,17228	
84	69264,68888,53999	96030,65640	1 38643,01990	9,84051,18878,5058	9,98240,98974	50:24
	12,58760,07409	33,55414	23,24329	7,89179,7323	15,17207	
85	69277,27648,61408	96064,21054	1 38666,26319	9,84059,08058,2381	9,98256,16181	51: 0
	12,58549,04345	33,56540	23,25531	7,88904,0826	15,17185	
86	69289,86197,65753	96097,77594	1 38689,51850	9,84066,96962,3207	9,98271,33366	51:36
	12,58337,97445	33,57666	23,26733	7,88628,5332	15,17164	
87	69302,44535,63198	96131,35260	1 38712,78583	9,84074,85590,8539	9,98286,50530	52:12
	12,58126,86714	33,58793	23,27937	7,88353,0836	15,17144	
88	69315,02662,49912	96164,94053	1 38736,06520	9,84082,73943,9375	9,98301,67674	52:48
	12,57915,72148	33,59921	23,29141	7,88077,7342	15,17122	
89	69327,60578,22060	96198,53974	1 38759,35661	9,84090,62021,6717	9,98316,84796	53:24
	12,57704,53753	33,61049	23,30347	7,87802,4846	15,17103	
90	69340,18282,75813	96232,15023	1 38782,66008	9,84098,49824,1563	9,98332,01899	54: 0
	12,57493,31525	33,62178	23,31552	7,87527,3349	15,17081	
91	69352,75776,07338	96265,77201	1 38805,97560	9,84106,37351,4912	9,98347,18980	54:36
	12,57282,05467	33,63309	23,32758	7,87252,2849	15,17062	
92	69365,33058,12805	96299,40510	1 38829,30318	9,84114,24603,7761	9,98362,36042	55:12
	12,57070,75579	33,64439	23,33966	7,86977,3347	15,17042	
93	69377,90128,88384	96333,04949	1 38852,64284	9,84122,11581,1108	9,98377,53084	55:48
	12,56859,41862	33,65570	23,35174	7,86702,4840	15,17022	
94	69390,46988,30246	96366,70519	1 38875,99458	9,84129,98283,5948	9,98392,70106	56:24
	12,56648,04316	33,66703	23,36382	7,86427,7330	15,17002	
95	69403,03636,34562	96400,37222	1 38899,35840	9,84137,84711,3278	9,98407,87108	57: 0
	12,56436,62942	33,67836	23,37592	7,86153,0813	15,16983	
96	69415,60072,97504	96434,05058	1 38922,73432	9,84145,70864,4091	9,98423,04091	57:36
	12,56225,17741	33,68970	23,38802	7,85878,5292	15,16963	
97	69428,16298,15245	96467,74028	1 38946,12234	9,84153,56742,9383	9,98438,21054	58:12
	12,56013,68713	33,70104	23,40014	7,85604,0764	15,16945	
98	69440,72311,83958	96501,44132	1 38969,52248	9,84161,42347,0147	9,98453,37999	58:48
	12,55802,15859	33,71240	23,41225	7,85329,7228	15,16926	
99	69453,28113,99817	96535,15372	1 38992,93473	9,84169,27676,7375	9,98468,54925	59:24
	12,55590,59180	33,72376	23,42437	7,85055,4685	15,16907	
100	69465,83704,58997	96568,87748	1 39016,35910	9,84177,12732,2060	9,98483,71832	60: 0
	12,55378,98676	33,73513	23,43651	7,84781,3132	15,16888	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	72332,87919,74790	1 04753,77857	1 44821,80127	9,85933,57524,5631	10,02016,96973	19:48
	12,05266,59448	36,59872	26,47070	7,23715,4828	15,17596	
32	72320,82653,15342	1 04717,17985	1 44795,33057	9,85926,33809,0803	10,02001,79377	19:12
	12,05486,89631	36,58534	26,45661	7,23968,4198	15,17573	
31	72308,77166,25711	1 04680,59451	1 44768,87396	9,85919,09840,6605	10,01986,61804	18:36
	12,05707,16143	36,57198	26,44255	7,24221,4410	15,17548	
30	72296,71459,09568	1 04644,02253	1 44742,43141	9,85911,85619,2195	10,01971,44256	18: 0
	12,05927,38981	36,55862	26,42847	7,24474,5468	15,17524	
29	72284,65531,70587	1 04607,46391	1 44716,00294	9,85904,61144,6727	10,01956,26732	17:24
	12,06147,58146	36,54527	26,41442	7,24727,7370	15,17500	
28	72272,59384,12441	1 04570,91864	1 44689,58852	9,85897,36416,9357	10,01941,09232	16:48
	12,06367,73638	36,53194	26,40038	7,24981,0116	15,17476	
27	72260,53016,38803	1 04534,38670	1 44663,18814	9,85890,11435,9241	10,01925,91756	16:12
	12,06587,85453	36,51860	26,38633	7,25234,3709	15,17453	
26	72248,46428,53350	1 04497,86810	1 44636,80181	9,85882,86201,5532	10,01910,74303	15:36
	12,06807,93594	36,50529	26,37231	7,25487,8147	15,17429	
25	72236,39620,59756	1 04461,36281	1 44610,42950	9,85875,60713,7385	10,01895,56874	15: 0
	12,07027,98059	36,49198	26,35829	7,25741,3433	15,17407	
24	72224,32592,61697	1 04424,87083	1 44584,07121	9,85868,34972,3952	10,01880,39467	14:24
	12,07247,98847	36,47868	26,34428	7,25994,9567	15,17383	
23	72212,25344,62850	1 04388,39215	1 44557,72693	9,85861,08977,4385	10,01865,22084	13:48
	12,07467,95957	36,46540	26,33028	7,26248,6548	15,17361	
22	72200,17876,66893	1 04351,92675	1 44531,39665	9,85853,82728,7837	10,01850,04723	13:12
	12,07687,89389	36,45211	26,31629	7,26502,4377	15,17338	
21	72188,10188,77504	1 04315,47464	1 44505,08036	9,85846,56226,3460	10,01834,87385	12:36
	12,07907,79142	36,43884	26,30230	7,26756,3057	15,17316	
20	72176,02280,98362	1 04279,03580	1 44478,77806	9,85839,29470,0403	10,01819,70069	12: 0
	12,08127,65216	36,42557	26,28834	7,27010,2586	15,17294	
19	72163,94153,33146	1 04242,61023	1 44452,48972	9,85832,02459,7817	10,01804,52775	11:24
	12,08347,47609	36,41233	26,27437	7,27264,2965	15,17271	
18	72151,85805,85537	1 04206,19790	1 44426,21535	9,85824,75195,4852	10,01789,35504	10:48
	12,08567,26323	36,39908	26,26041	7,27518,4195	15,17250	
17	72139,77238,59214	1 04169,79882	1 44399,95494	9,85817,47677,0657	10,01774,18254	10:12
	12,08787,01354	36,38586	26,24648	7,27772,6277	15,17228	
16	72127,68451,57860	1 04133,41296	1 44373,70846	9,85810,19904,4380	10,01759,01026	9:36
	12,09006,72702	36,37262	26,23253	7,28026,9211	15,17207	
15	72115,59444,85158	1 04097,04034	1 44347,47593	9,85802,91877,5169	10,01743,83819	9: 0
	12,09226,40369	36,35942	26,21861	7,28281,2997	15,17185	
14	72103,50218,44789	1 04060,68092	1 44321,25732	9,85795,63596,2172	10,01728,66634	8:24
	12,09446,04352	36,34620	26,20469	7,28535,7638	15,17164	
13	72091,40772,40437	1 04024,33472	1 44295,05263	9,85788,35060,4534	10,01713,49470	7:48
	12,09665,64650	36,33302	26,19078	7,28790,3131	15,17144	
12	72079,31106,75787	1 03988,00170	1 44268,86185	9,85781,06270,1403	10,01698,32326	7:12
	12,09885,21264	36,31982	26,17689	7,29044,9479	15,17122	
11	72067,21221,54523	1 03951,68188	1 44242,68496	9,85773,77225,1924	10,01683,15204	6:36
	12,10104,74193	36,30665	26,16299	7,29299,6683	15,17103	
10	72055,11116,80330	1 03915,37523	1 44216,52197	9,85766,47925,5241	10,01667,98101	6: 0
	12,10324,23434	36,29349	26,14912	7,29554,4742	15,17081	
9	72043,00792,56896	1 03879,08174	1 44190,37285	9,85759,18371,0499	10,01652,81020	5:24
	12,10543,68989	36,28032	26,13524	7,29809,3657	15,17062	
8	72030,90248,87907	1 03842,80142	1 44164,23761	9,85751,88561,6842	10,01637,63958	4:48
	12,10763,10857	36,26718	26,12138	7,30064,3429	15,17042	
7	72018,79485,77050	1 03806,53424	1 44138,11623	9,85744,58497,3413	10,01622,46916	4:12
	12,10982,49036	36,25404	26,10752	7,30319,4058	15,17022	
6	72006,68503,28014	1 03770,28020	1 44112,00871	9,85737,28177,9355	10,01607,29894	3:36
	12,11201,83527	36,24090	26,09368	7,30574,5546	15,17002	
5	71994,57301,44487	1 03734,03930	1 44085,91503	9,85729,97603,3809	10,01592,12892	3: 0
	12,11421,14328	36,22779	26,07985	7,30829,7891	15,16983	
4	71982,45880,30159	1 03697,81151	1 44059,83518	9,85722,66773,5918	10,01576,95909	2:24
	12,11640,41439	36,21468	26,06602	7,31085,1097	15,16963	
3	71970,34239,88720	1 03661,59683	1 44033,76916	9,85715,35688,4821	10,01561,78946	1:48
	12,11859,64859	36,20157	26,05220	7,31340,5161	15,16945	
2	71958,22380,23861	1 03625,39526	1 44007,71696	9,85708,04347,9660	10,01546,62001	1:12
	12,12078,84587	36,18848	26,03840	7,31596,0087	15,16926	
1	71946,10301,39274	1 03589,20678	1 43981,67856	9,85700,72751,9573	10,01531,45075	0:36
	12,12298,00623	36,17540	26,02460	7,31851,5872	15,16907	
0	71933,98003,38651	1 03553,03138	1 43955,65396	9,85693,40900,3701	10,01516,28168	0: 0
	12,12517,12966	36,16233	26,01080	7,32107,2521	15,16888	

GRAD. 46.

44. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
0	69465,83704,58997	96568,87748	1 39016,35910	9,84177,12732,2060	9,98483,71832	0: 0
	12,55378,98676	33,73513	23,43651	7,84781,3132	15,16888	
1	69478,39083,57673	96602,61261	1 39039,79561	9,84184,97513,5192	9,98498,88720	0:36
	12,55167,34348	33,74651	23,44865	7,84507,2571	15,16871	
2	69490,94250,92021	96636,35912	1 39063,24426	9,84192,82020,7763	9,98514,05591	1:12
	12,54955,66197	33,75789	23,46080	7,84233,3000	15,16852	
3	69503,49206,58218	96670,11701	1 39086,70506	9,84200,66254,0763	9,98529,22443	1:48
	12,54743,94222	33,76929	23,47295	7,83959,4417	15,16834	
4	69516,03950,52440	96703,88630	1 39110,17801	9,84208,50213,5180	9,98544,39277	2:24
	12,54532,18425	33,78069	23,48511	7,83685,6823	15,16816	
5	69528,58482,70865	96737,66699	1 39133,66312	9,84216,33899,2003	9,98559,56093	3: 0
	12,54320,38808	33,79210	23,49729	7,83412,0218	15,16799	
6	69541,12803,09673	96771,45909	1 39157,16041	9,84224,17311,2221	9,98574,72892	3:36
	12,54108,55368	33,80351	23,50947	7,83138,4598	15,16782	
7	69553,66911,65041	96805,26260	1 39180,66988	9,84232,00449,6819	9,98589,89674	4:12
	12,53896,68110	33,81494	23,52165	7,82864,9966	15,16764	
8	69566,20808,33151	96839,07754	1 39204,19153	9,84239,83314,6785	9,98605,06438	4:48
	12,53684,77030	33,82637	23,53384	7,82591,6319	15,16747	
9	69578,74493,10181	96872,90391	1 39227,72537	9,84247,65906,3104	9,98620,23185	5:24
	12,53472,82133	33,83781	23,54604	7,82318,3658	15,16731	
10	69591,27965,92314	96906,74172	1 39251,27141	9,84255,48224,6762	9,98635,39916	6: 0
	12,53260,83417	33,84926	23,55826	7,82045,1980	15,16714	
11	69603,81226,75731	96940,59098	1 39274,82967	9,84263,30269,8742	9,98650,56630	6:36
	12,53048,80884	33,86071	23,57047	7,81772,1286	15,16697	
12	69616,34275,56615	96974,45169	1 39298,40014	9,84271,12042,0028	9,98665,73327	7:12
	12,52836,74532	33,87218	23,58269	7,81499,1575	15,16681	
13	69628,87112,31147	97008,32387	1 39321,98283	9,84278,93541,1603	9,98680,90008	7:48
	12,52624,64366	33,88365	23,59493	7,81226,2847	15,16665	
14	69641,39736,95513	97042,20752	1 39345,57776	9,84286,74767,4450	9,98696,06673	8:24
	12,52412,50383	33,89514	23,60717	7,80953,5100	15,16650	
15	69653,92149,45896	97076,10266	1 39369,18493	9,84294,55720,9550	9,98711,23323	9: 0
	12,52200,32585	33,90661	23,61941	7,80680,8333	15,16633	
16	69666,44349,78481	97110,00927	1 39392,80434	9,84302,36401,7883	9,98726,39956	9:36
	12,51988,10973	33,91812	23,63167	7,80408,2547	15,16618	
17	69678,96337,89454	97143,92739	1 39416,43601	9,84310,16810,0430	9,98741,56574	10:12
	12,51775,85547	33,92962	23,64393	7,80135,7741	15,16602	
18	69691,48113,75001	97177,85701	1 39440,07994	9,84317,96945,8171	9,98756,73176	10:48
	12,51563,56307	33,94112	23,65619	7,79863,3913	15,16588	
19	69703,99677,31308	97211,79813	1 39463,73613	9,84325,76809,2084	9,98771,89764	11:24
	12,51351,23257	33,95265	23,66848	7,79591,1063	15,16572	
20	69716,51028,54565	97245,75078	1 39487,40461	9,84333,56400,3147	9,98787,06336	12: 0
	12,51138,86392	33,96418	23,68076	7,79318,9190	15,16558	
21	69729,02167,40957	97279,71496	1 39511,08537	9,84341,35719,2337	9,98802,22894	12:36
	12,50926,45718	33,97571	23,69306	7,79046,8295	15,16543	
22	69741,53093,86675	97313,69067	1 39534,77843	9,84349,14766,0632	9,98817,39437	13:12
	12,50714,01233	33,98725	23,70536	7,78774,8374	15,16529	
23	69754,03807,87908	97347,67792	1 39558,48379	9,84356,93540,9006	9,98832,55966	13:48
	12,50501,52938	33,99881	23,71766	7,78502,9431	15,16514	
24	69766,54309,40846	97381,67673	1 39582,20145	9,84364,72043,8437	9,98847,72480	14:24
	12,50289,00834	34,01036	23,72998	7,78231,1460	15,16500	
25	69779,04598,41680	97415,68709	1 39605,93143	9,84372,50274,9897	9,98862,88980	15: 0
	12,50076,44921	34,02193	23,74231	7,77959,4464	15,16487	
26	69791,54674,86601	97449,70902	1 39629,67374	9,84380,28234,4361	9,98878,05467	15:36
	12,49863,85200	34,03351	23,75464	7,77687,8442	15,16473	
27	69804,04538,71801	97483,74253	1 39653,42838	9,84388,05922,2803	9,98893,21940	16:12
	12,49651,21672	34,04509	23,76697	7,77416,3391	15,16459	
28	69816,54189,93473	97517,78762	1 39677,19535	9,84395,83338,6194	9,98908,38399	16:48
	12,49438,54337	34,05668	23,77933	7,77144,9313	15,16446	
29	69829,03628,47810	97551,84430	1 39700,97468	9,84403,60483,5507	9,98923,54845	17:24
	12,49225,83196	34,06828	23,79168	7,76873,6205	15,16433	
30	69841,52854,31006	97585,91258	1 39724,76636	9,84411,37357,1712	9,98938,71278	18: 0
	12,49013,08250	34,07988	23,80404	7,76602,4069	15,16420	
31	69854,01867,39256	97619,99246	1 39748,57040	9,84419,13959,5781	9,98953,87698	18:36
	12,48800,29499	34,09150	23,81641	7,76331,2902	15,16407	
32	69866,50667,68755	97654,08396	1 39772,38681	9,84426,90290,8683	9,98969,04105	19:12
	12,48587,46944	34,10313	23,82879	7,76060,2704	15,16395	
33	69878,99255,15699	97688,18709	1 39796,21560	9,84434,66351,1387	9,98984,20500	19:48
	12,48374,60586	34,11475	23,84118	7,75789,3475	15,16382	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
100	71933,98003,38651	1 03553,03138	1 43955,65396	9,85693,40900,3701	10,01516,28168	60: 0
	12,12517,12966	36,16233	26,01080	7,32107,2521	15,16888	
99	71921,85486,25685	1 03516,86905	1 43929,64316	9,85686,08793,1180	10,01501,11280	59:24
	12,12736,21617	36,14926	25,99703	7,32363,0030	15,16871	
98	71909,72750,04068	1 03480,71979	1 43903,64613	9,85678,76430,1150	10,01485,94409	58:48
	12,12955,26572	36,13620	25,98326	7,32618,8402	15,16852	
97	71897,59794,77496	1 03444,58359	1 43877,66287	9,85671,43811,2748	10,01470,77557	58:12
	12,13174,27833	36,12316	25,96949	7,32874,7639	15,16834	
96	71885,46620,49663	1 03408,46043	1 43851,69338	9,85664,10936,5109	10,01455,60723	57:36
	12,13393,25398	36,11012	25,95574	7,33130,7737	15,16816	
95	71873,33227,24265	1 03372,35031	1 43825,73764	9,85656,77805,7372	10,01440,43907	57: 0
	12,13612,19266	36,09710	25,94199	7,33386,8702	15,16799	
94	71861,19615,04999	1 03336,25321	1 43799,79565	9,85649,44418,8670	10,01425,27108	56:24
	12,13831,09439	36,08407	25,92826	7,33643,0532	15,16782	
93	71849,05783,95560	1 03300,16914	1 43773,86739	9,85642,10775,8138	10,01410,10326	55:48
	12,14049,95914	36,07107	25,91453	7,33899,3226	15,16764	
92	71836,91733,99646	1 03264,09807	1 43747,95286	9,85634,76876,4912	10,01394,93562	55:12
	12,14268,78690	36,05807	25,90082	7,34155,6787	15,16747	
91	71824,77465,20956	1 03228,04000	1 43722,05204	9,85627,42720,8125	10,01379,76815	54:36
	12,14487,57767	36,04507	25,88710	7,34412,1215	15,16731	
90	71812,62977,63189	1 03191,99493	1 43696,16494	9,85620,08308,6910	10,01364,60084	54: 0
	12,14706,33145	36,03210	25,87341	7,34668,6511	15,16714	
89	71800,48271,30044	1 03155,96283	1 43670,29153	9,85612,73640,0399	10,01349,43370	53:24
	12,14925,04823	36,01912	25,85972	7,34925,2674	15,16697	
88	71788,33346,25221	1 03119,94371	1 43644,43181	9,85605,38714,7725	10,01334,26673	52:48
	12,15143,72800	36,00616	25,84603	7,35181,9706	15,16681	
87	71776,18202,52421	1 03083,93755	1 43618,58578	9,85598,03532,8019	10,01319,09992	52:12
	12,15362,37076	35,99321	25,83236	7,35438,7608	15,16665	
86	71764,02840,15345	1 03047,94434	1 43592,75342	9,85590,68094,0411	10,01303,93327	51:36
	12,15580,97648	35,98026	25,81870	7,35695,6379	15,16650	
85	71751,87259,17697	1 03011,96408	1 43566,93472	9,85583,32398,4032	10,01288,76677	51: 0
	12,15799,54518	35,96732	25,80505	7,35952,6021	15,16633	
84	71739,71459,63179	1 02975,99676	1 43541,12967	9,85575,96445,8011	10,01273,60044	50:24
	12,16018,07686	35,95440	25,79139	7,36209,6534	15,16618	
83	71727,55441,55493	1 02940,04236	1 43515,33828	9,85568,60236,1477	10,01258,43426	49:48
	12,16236,57147	35,94149	25,77777	7,36466,7918	15,16602	
82	71715,39204,98346	1 02904,10087	1 43489,56051	9,85561,23769,3559	10,01243,26824	49:12
	12,16455,02906	35,92857	25,76413	7,36724,0174	15,16588	
81	71703,22749,95440	1 02868,17230	1 43463,79638	9,85553,87045,3385	10,01228,10236	48:36
	12,16673,44957	35,91568	25,75051	7,36981,3304	15,16572	
80	71691,06076,50483	1 02832,25662	1 43438,04587	9,85546,50064,0081	10,01212,93664	48: 0
	12,16891,83304	35,90278	25,73691	7,37238,7308	15,16558	
79	71678,89184,67179	1 02796,35384	1 43412,30896	9,85539,12825,2773	10,01197,77106	47:24
	12,17110,17942	35,88991	25,72330	7,37496,2184	15,16543	
78	71666,72074,49237	1 02760,46393	1 43386,58566	9,85531,75329,0589	10,01182,60563	46:48
	12,17328,48874	35,87703	25,70971	7,37753,7935	15,16529	
77	71654,54746,00363	1 02724,58690	1 43360,87595	9,85524,37575,2654	10,01167,44034	46:12
	12,17546,76097	35,86418	25,69613	7,38011,4563	15,16514	
76	71642,37199,24266	1 02688,72272	1 43335,17982	9,85516,99563,8091	10,01152,27520	45:36
	12,17764,99612	35,85131	25,68255	7,38269,2066	15,16500	
75	71630,19434,24654	1 02652,87141	1 43309,49727	9,85509,61294,6025	10,01137,11020	45: 0
	12,17983,19416	35,83848	25,66899	7,38527,0444	15,16487	
74	71618,01451,05238	1 02617,03293	1 43283,82828	9,85502,22767,5581	10,01121,94533	44:24
	12,18201,35512	35,82564	25,65543	7,38784,9701	15,16473	
73	71605,83249,69726	1 02581,20729	1 43258,17285	9,85494,83982,5880	10,01106,78060	43:48
	12,18419,47895	35,81281	25,64188	7,39042,9836	15,16459	
72	71593,64830,21831	1 02545,39448	1 43232,53097	9,85487,44939,6044	10,01091,61601	43:12
	12,18637,56567	35,80000	25,62834	7,39301,0847	15,16446	
71	71581,46192,65264	1 02509,59448	1 43206,90263	9,85480,05638,5197	10,01076,45155	42:36
	12,18855,61528	35,78719	25,61481	7,39559,2738	15,16433	
70	71569,27337,03736	1 02473,80729	1 43181,28782	9,85472,66079,2459	10,01061,28722	42: 0
	12,19073,62775	35,77439	25,60129	7,39817,5509	15,16420	
69	71557,08263,40961	1 02438,03290	1 43155,68653	9,85465,26261,6950	10,01046,12302	41:24
	12,19291,60309	35,76160	25,58778	7,40075,9160	15,16407	
68	71544,88971,80652	1 02402,27130	1 43130,09875	9,85457,86185,7790	10,01030,95895	40:48
	12,19509,54129	35,74881	25,57427	7,40334,3691	15,16395	
67	71532,69462,26523	1 02366,52249	1 43104,52448	9,85450,45851,4099	10,01015,79500	40:12
	12,19727,44233	35,73605	25,56078	7,40592,9104	15,16382	

GRAD. 45.

44. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	69878,99255,15699	97688,18709	1 39796,21560	9,84434,66351,1387	9,98984,20500	19:48
	12,48374,60586	34,11475	23,84118	7,75789,3475	15,16382	
34	69891,47629,76285	97722,30184	1 39820,05678	9,84442,42140,4862	9,98999,36882	20:24
	12,48161,70425	34,12640	23,85357	7,75518,5213	15,16370	
35	69903,95791,46710	97756,42824	1 39843,91035	9,84450,17659,0075	9,99014,53252	21: 0
	12,47948,76461	34,13804	23,86597	7,75247,7918	15,16358	
36	69916,43740,23171	97790,56628	1 39867,77632	9,84457,92906,7993	9,99029,69610	21:36
	12,47735,78697	34,14969	23,87838	7,74977,1590	15,16346	
37	69928,91476,01868	97824,71597	1 39891,65470	9,84465,67883,9583	9,99044,85956	22:12
	12,47522,77131	34,16136	23,89080	7,74706,6227	15,16335	
38	69941,38998,78999	97858,87733	1 39915,54550	9,84473,42590,5810	9,99060,02291	22:48
	12,47309,71766	34,17303	23,90322	7,74436,1830	15,16323	
39	69953,86308,50765	97893,05036	1 39939,44872	9,84481,17026,7640	9,99075,18614	23:24
	12,47096,62600	34,18471	23,91566	7,74165,8397	15,16312	
40	69966,33405,13365	97927,23507	1 39963,36438	9,84488,91192,6037	9,99090,34926	24: 0
	12,46883,49637	34,19640	23,92810	7,73895,5927	15,16301	
41	69978,80288,63002	97961,43147	1 39987,29248	9,84496,65088,1964	9,99105,51227	24:36
	12,46670,32874	34,20809	23,94055	7,73625,4420	15,16290	
42	69991,26958,95876	97995,63956	1 40011,23303	9,84504,38713,6384	9,99120,67517	25:12
	12,46457,12314	34,21980	23,95300	7,73355,3876	15,16279	
43	70003,73416,08190	98029,85936	1 40035,18603	9,84512,12069,0260	9,99135,83796	25:48
	12,46243,87957	34,23151	23,96546	7,73085,4293	15,16268	
44	70016,19659,96147	98064,09087	1 40059,15149	9,84519,85154,4553	9,99151,00064	26:24
	12,46030,59804	34,24322	23,97794	7,72815,5672	15,16259	
45	70028,65690,55951	98098,33409	1 40083,12943	9,84527,57970,0225	9,99166,16323	27: 0
	12,45817,27855	34,25496	23,99042	7,72545,8010	15,16248	
46	70041,11507,83806	98132,58905	1 40107,11985	9,84535,30515,8235	9,99181,32571	27:36
	12,45603,92112	34,26669	24,00291	7,72276,1308	15,16238	
47	70053,57111,75918	98166,85574	1 40131,12276	9,84543,02791,9543	9,99196,48809	28:12
	12,45390,52574	34,27844	24,01540	7,72006,5565	15,16228	
48	70066,02502,28492	98201,13418	1 40155,13816	9,84550,74798,5108	9,99211,65037	28:48
	12,45177,09242	34,29018	24,02791	7,71737,0780	15,16219	
49	70078,47679,37734	98235,42436	1 40179,16607	9,84558,46535,5888	9,99226,81256	29:24
	12,44963,62117	34,30195	24,04042	7,71467,6953	15,16209	
50	70090,92642,99851	98269,72631	1 40203,20649	9,84566,18003,2841	9,99241,97465	30: 0
	12,44750,11200	34,31372	24,05293	7,71198,4082	15,16200	
51	70103,37393,11051	98304,04003	1 40227,25942	9,84573,89201,6923	9,99257,13665	30:36
	12,44536,56491	34,32549	24,06547	7,70929,2168	15,16191	
52	70115,81929,67542	98338,36552	1 40251,32489	9,84581,60130,9091	9,99272,29856	31:12
	12,44322,97992	34,33728	24,07800	7,70660,1210	15,16182	
53	70128,26252,65534	98372,70280	1 40275,40289	9,84589,30791,0301	9,99287,46038	31:48
	12,44109,35701	34,34907	24,09054	7,70391,1205	15,16174	
54	70140,70362,01235	98407,05187	1 40299,49343	9,84597,01182,1506	9,99302,62212	32:24
	12,43895,69621	34,36087	24,10310	7,70122,2156	15,16165	
55	70153,14257,70856	98441,41274	1 40323,59653	9,84604,71304,3662	9,99317,78377	33: 0
	12,43681,99751	34,37268	24,11565	7,69853,4060	15,16156	
56	70165,57939,70607	98475,78542	1 40347,71218	9,84612,41157,7722	9,99332,94533	33:36
	12,43468,26094	34,38450	24,12822	7,69584,6917	15,16149	
57	70178,01407,96701	98510,16992	1 40371,84040	9,84620,10742,4639	9,99348,10682	34:12
	12,43254,48649	34,39633	24,14080	7,69316,0725	15,16140	
58	70190,44662,45350	98544,56625	1 40395,98120	9,84627,80058,5364	9,99363,26822	34:48
	12,43040,67416	34,40815	24,15338	7,69047,5486	15,16133	
59	70202,87703,12766	98578,97440	1 40420,13458	9,84635,49106,0850	9,99378,42955	35:24
	12,42826,82396	34,42000	24,16597	7,68779,1197	15,16126	
60	70215,30529,95162	98613,39440	1 40444,30055	9,84643,17885,2047	9,99393,59081	36: 0
	12,42612,93592	34,43185	24,17856	7,68510,7859	15,16117	
61	70227,73142,88754	98647,82625	1 40468,47911	9,84650,86395,9906	9,99408,75198	36:36
	12,42399,01001	34,44371	24,19118	7,68242,5469	15,16111	
62	70240,15541,89755	98682,26996	1 40492,67029	9,84658,54638,5375	9,99423,91309	37:12
	12,42185,04627	34,45558	24,20379	7,67974,4029	15,16104	
63	70252,57726,94382	98716,72554	1 40516,87408	9,84666,22612,9404	9,99439,07413	37:48
	12,41971,04467	34,46745	24,21641	7,67706,3537	15,16096	
64	70264,99697,98849	98751,19299	1 40541,09049	9,84673,90319,2941	9,99454,23509	38:24
	12,41757,00526	34,47933	24,22905	7,67438,3993	15,16091	
65	70277,41454,99375	98785,67232	1 40565,31954	9,84681,57757,6934	9,99469,39600	39: 0
	12,41542,92801	34,49123	24,24168	7,67170,5394	15,16083	
66	70289,82997,92176	98820,16355	1 40589,56122	9,84689,24928,2328	9,99484,55683	39:36
	12,41328,81294	34,50313	24,25433	7,66902,7743	15,16078	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	71532,69462,26523	1 02366,52249	1 43104,52448	9,85450,45851,4099	10,01015,79500	40:12
	12,19727,44233	35,73605	25,56078	7,40592,9104	15,16382	
66	71520,49734,82290	1 02330,78644	1 43078,96370	9,85443,05258,4995	10,01000,63118	39:36
	12,19945,30623	35,72329	25,54729	7,40851,5399	15,16370	
65	71508,29789,51667	1 02295,06315	1 43053,41641	9,85435,64406,9596	10,00985,46748	39: 0
	12,20163,13295	35,71053	25,53382	7,41110,2576	15,16358	
64	71496,09626,38372	1 02259,35262	1 43027,88259	9,85428,23296,7020	10,00970,30390	38:24
	12,20380,92253	35,69778	25,52034	7,41369,0636	15,16346	
63	71483,89245,46119	1 02223,65484	1 43002,36225	9,85420,81927,6384	10,00955,14044	37:48
	12,20598,67491	35,68506	25,50689	7,41627,9580	15,16335	
62	71471,68646,78628	1 02187,96978	1 42976,85536	9,85413,40299,6804	10,00939,97709	37:12
	12,20816,39011	35,67232	25,49343	7,41886,9409	15,16323	
61	71459,47830,39617	1 02152,29746	1 42951,36193	9,85405,98412,7395	10,00924,81386	36:36
	12,21034,06814	35,65961	25,48000	7,42146,0122	15,16312	
60	71447,26796,32803	1 02116,63785	1 42925,88193	9,85398,56266,7273	10,00909,65074	36: 0
	12,21251,70895	35,64689	25,46655	7,42405,1721	15,16301	
59	71435,05544,61908	1 02080,99096	1 42900,41538	9,85391,13861,5552	10,00894,48773	35:24
	12,21469,31258	35,63420	25,45314	7,42664,4206	15,16290	
58	71422,84075,30650	1 02045,35676	1 42874,96224	9,85383,71197,1346	10,00879,32483	34:48
	12,21686,87900	35,62151	25,43971	7,42923,7578	15,16279	
57	71410,62388,42750	1 02009,73525	1 42849,52253	9,85376,28273,3768	10,00864,16204	34:12
	12,21904,40819	35,60882	25,42631	7,43183,1838	15,16268	
56	71398,40484,01931	1 01974,12643	1 42824,09622	9,85368,85090,1930	10,00848,99936	33:36
	12,22121,90017	35,59615	25,41291	7,43442,6985	15,16259	
55	71386,18362,11914	1 01938,53028	1 42798,68331	9,85361,41647,4945	10,00833,83677	33: 0
	12,22339,35493	35,58349	25,39952	7,43702,3021	15,16248	
54	71373,96022,76421	1 01902,94679	1 42773,28379	9,85353,97945,1924	10,00818,67429	32:24
	12,22556,77243	35,57084	25,38614	7,43961,9946	15,16238	
53	71361,73465,99178	1 01867,37595	1 42747,89765	9,85346,53983,1978	10,00803,51191	31:48
	12,22774,15272	35,55818	25,37276	7,44221,7762	15,16228	
52	71349,50691,83906	1 01831,81777	1 42722,52489	9,85339,09761,4216	10,00788,34963	31:12
	12,22991,49573	35,54555	25,35940	7,44481,6468	15,16219	
51	71337,27700,34333	1 01796,27222	1 42697,16549	9,85331,65279,7748	10,00773,18744	30:36
	12,23208,80151	35,53292	25,34605	7,44741,6064	15,16209	
50	71325,04491,54182	1 01760,73930	1 42671,81944	9,85324,20538,1684	10,00758,02535	30: 0
	12,23426,07003	35,52030	25,33270	7,45001,6553	15,16200	
49	71312,81065,47179	1 01725,21900	1 42646,48674	9,85316,75536,5131	10,00742,86335	29:24
	12,23643,30126	35,50770	25,31936	7,45261,7934	15,16191	
48	71300,57422,17053	1 01689,71130	1 42621,16738	9,85309,30274,7197	10,00727,70144	28:48
	12,23860,49523	35,49508	25,30603	7,45522,0207	15,16182	
47	71288,33561,67530	1 01654,21622	1 42595,86135	9,85301,84752,6990	10,00712,53962	28:12
	12,24077,65192	35,48250	25,29271	7,45782,3375	15,16174	
46	71276,09484,02338	1 01618,73372	1 42570,56864	9,85294,38970,3615	10,00697,37788	27:36
	12,24294,77133	35,46991	25,27940	7,46042,7437	15,16165	
45	71263,85189,25205	1 01583,26381	1 42545,28924	9,85286,92927,6178	10,00682,21623	27: 0
	12,24511,85342	35,45734	25,26609	7,46303,2393	15,16156	
44	71251,60677,39863	1 01547,80647	1 42520,02315	9,85279,46624,3785	10,00667,05467	26:24
	12,24728,89824	35,44477	25,25280	7,46563,8245	15,16149	
43	71239,35948,50039	1 01512,36170	1 42494,77035	9,85272,00060,5540	10,00651,89318	25:48
	12,24945,90573	35,43222	25,23951	7,46824,4993	15,16140	
42	71227,11002,59466	1 01476,92948	1 42469,53084	9,85264,53236,0547	10,00636,73178	25:12
	12,25162,87592	35,41966	25,22623	7,47085,2638	15,16133	
41	71214,85839,71874	1 01441,50982	1 42444,30461	9,85257,06150,7909	10,00621,57045	24:36
	12,25379,80878	35,40713	25,21297	7,47346,1179	15,16126	
40	71202,60459,90996	1 01406,10269	1 42419,09164	9,85249,58804,6730	10,00606,40919	24: 0
	12,25596,70431	35,39459	25,19970	7,47607,0620	15,16117	
39	71190,34863,20565	1 01370,70810	1 42393,89194	9,85242,11197,6110	10,00591,24802	23:24
	12,25813,56252	35,38207	25,18646	7,47868,0958	15,16111	
38	71178,09049,64313	1 01335,32603	1 42368,70548	9,85234,63329,5152	10,00576,08691	22:48
	12,26030,38338	35,36956	25,17320	7,48129,2195	15,16104	
37	71165,83019,25975	1 01299,95647	1 42343,53228	9,85227,15200,2957	10,00560,92587	22:12
	12,26247,16690	35,35705	25,15998	7,48390,4333	15,16096	
36	71153,56772,09285	1 01264,59942	1 42318,37230	9,85219,66809,8624	10,00545,76491	21:36
	12,26463,91305	35,34456	25,14674	7,48651,7371	15,16091	
35	71141,30308,17980	1 01229,25486	1 42293,22556	9,85212,18158,1253	10,00530,60400	21: 0
	12,26680,62186	35,33207	25,13353	7,48913,1310	15,16083	
34	71129,03627,55794	1 01193,92279	1 42268,09203	9,85204,69244,9943	10,00515,44317	20:24
	12,26897,29330	35,31960	25,12032	7,49174,6150	15,16078	

GRAD. 45.

44. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	70302,24326,73470	98854,66668	1 40613,81555	9,84696,91831,0071	9,99499,71761	40:12
	12,41114,66007	34,51503	24,26698	7,66635,1037	15,16071	
68	70314,65441,39477	98889,18171	1 40638,08253	9,84704,58466,1108	9,99514,87832	40:48
	12,40900,46938	34,52695	24,27965	7,66367,5276	15,16065	
69	70327,06341,86415	98923,70866	1 40662,36218	9,84712,24833,6384	9,99530,03897	41:24
	12,40686,24089	34,53887	24,29232	7,66100,0459	15,16060	
70	70339,47028,10504	98958,24753	1 40686,65450	9,84719,90933,6843	9,99545,19957	42: 0
	12,40471,97461	34,55081	24,30500	7,65832,6585	15,16054	
71	70351,87500,07965	98992,79834	1 40710,95950	9,84727,56766,3428	9,99560,36011	42:36
	12,40257,67055	34,56275	24,31768	7,65565,3654	15,16049	
72	70364,27757,75020	99027,36109	1 40735,27718	9,84735,22331,7082	9,99575,52060	43:12
	12,40043,32871	34,57469	24,33038	7,65298,1666	15,16043	
73	70376,67801,07891	99061,93578	1 40759,60756	9,84742,87629,8748	9,99590,68103	43:48
	12,39828,94908	34,58666	24,34309	7,65031,0619	15,16039	
74	70389,07630,02799	99096,52244	1 40783,95065	9,84750,52660,9367	9,99605,84142	44:24
	12,39614,53169	34,59862	24,35579	7,64764,0512	15,16034	
75	70401,47244,55968	99131,12106	1 40808,30644	9,84758,17424,9879	9,99621,00176	45: 0
	12,39400,07655	34,61059	24,36851	7,64497,1347	15,16029	
76	70413,86644,63623	99165,73165	1 40832,67495	9,84765,81922,1226	9,99636,16205	45:36
	12,39185,58364	34,62258	24,38124	7,64230,3120	15,16025	
77	70426,25830,21987	99200,35423	1 40857,05619	9,84773,46152,4346	9,99651,32230	46:12
	12,38971,05300	34,63457	24,39398	7,63963,5833	15,16020	
78	70438,64801,27287	99234,98880	1 40881,45017	9,84781,10116,0179	9,99666,48250	46:48
	12,38756,48460	34,64657	24,40672	7,63696,9484	15,16017	
79	70451,03557,75747	99269,63537	1 40905,85689	9,84788,73812,9663	9,99681,64267	47:24
	12,38541,87848	34,65858	24,41947	7,63430,4072	15,16012	
80	70463,42099,63595	99304,29395	1 40930,27636	9,84796,37243,3735	9,99696,80279	48: 0
	12,38327,23462	34,67059	24,43224	7,63163,9597	15,16009	
81	70475,80426,87057	99338,96454	1 40954,70860	9,84804,00407,3332	9,99711,96288	48:36
	12,38112,55304	34,68261	24,44500	7,62897,6059	15,16005	
82	70488,18539,42361	99373,64715	1 40979,15360	9,84811,63304,9391	9,99727,12293	49:12
	12,37897,83376	34,69465	24,45777	7,62631,3456	15,16002	
83	70500,56437,25737	99408,34180	1 41003,61137	9,84819,25936,2847	9,99742,28295	49:48
	12,37683,07675	34,70669	24,47056	7,62365,1788	15,15999	
84	70512,94120,33412	99443,04849	1 41028,08193	9,84826,88301,4635	9,99757,44294	50:24
	12,37468,28206	34,71874	24,48336	7,62099,1054	15,15996	
85	70525,31588,61618	99477,76723	1 41052,56529	9,84834,50400,5689	9,99772,60290	51: 0
	12,37253,44965	34,73080	24,49615	7,61833,1255	15,15993	
86	70537,68842,06583	99512,49803	1 41077,06144	9,84842,12233,6944	9,99787,76283	51:36
	12,37038,57957	34,74287	24,50896	7,61567,2387	15,15991	
87	70550,05880,64540	99547,24090	1 41101,57040	9,84849,73800,9331	9,99802,92274	52:12
	12,36823,67181	34,75493	24,52178	7,61301,4453	15,15988	
88	70562,42704,31721	99581,99583	1 41126,09218	9,84857,35102,3784	9,99818,08262	52:48
	12,36608,72635	34,76703	24,53461	7,61035,7450	15,15986	
89	70574,79313,04356	99616,76286	1 41150,62679	9,84864,96138,1234	9,99833,24248	53:24
	12,36393,74325	34,77911	24,54743	7,60770,1378	15,15984	
90	70587,15706,78681	99651,54197	1 41175,17422	9,84872,56908,2612	9,99848,40232	54: 0
	12,36178,72247	34,79121	24,56028	7,60504,6237	15,15982	
91	70599,51885,50928	99686,33318	1 41199,73450	9,84880,17412,8849	9,99863,56214	54:36
	12,35963,66404	34,80333	24,57313	7,60239,2024	15,15980	
92	70611,87849,17332	99721,13651	1 41224,30763	9,84887,77652,0873	9,99878,72194	55:12
	12,35748,56795	34,81543	24,58599	7,59973,8742	15,15979	
93	70624,23597,74127	99755,95194	1 41248,89362	9,84895,37625,9615	9,99893,88173	55:48
	12,35533,43423	34,82757	24,59885	7,59708,6388	15,15978	
94	70636,59131,17550	99790,77951	1 41273,49247	9,84902,97334,6003	9,99909,04151	56:24
	12,35318,26287	34,83970	24,61173	7,59443,4961	15,15977	
95	70648,94449,43837	99825,61921	1 41298,10420	9,84910,56778,0964	9,99924,20128	57: 0
	12,35103,05388	34,85184	24,62461	7,59178,4462	15,15975	
96	70661,29552,49225	99860,47105	1 41322,72881	9,84918,15956,5426	9,99939,36103	57:36
	12,34887,80726	34,86399	24,63750	7,58913,4889	15,15975	
97	70673,64440,29951	99895,33504	1 41347,36631	9,84925,74870,0315	9,99954,52078	58:12
	12,34672,52303	34,87615	24,65040	7,58648,6243	15,15974	
98	70685,99112,82254	99930,21119	1 41372,01671	9,84933,33518,6558	9,99969,68052	58:48
	12,34457,20119	34,88832	24,66330	7,58383,8520	15,15974	
99	70698,33570,02373	99965,09951	1 41396,68001	9,84940,91902,5078	9,99984,84026	59:24
	12,34241,84175	34,90049	24,67623	7,58119,1723	15,15974	
100	70710,67811,86548	1 00000,00000	1 41421,35624	9,84948,50021,6801	1,00000,000000	60: 0
	12,34026,44470	34,91268	24,68914	7,57854,5850	15,15974	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	71116,76730,26464	1 01158,60319	1 42242,97171	9,85197,20070,3793	10,00500,28239	19:48
	12,27113,92735	35,30712	25,10712	7,49436,1893	15,16071	
32	71104,49616,33729	1 01123,29607	1 42217,86459	9,85189,70634,1900	10,00485,12168	19:12
	12,27330,52404	35,29466	25,09393	7,49697,8538	15,16065	
31	71092,22285,81325	1 01088,00141	1 42192,77066	9,85182,20936,3362	10,00469,96103	18:36
	12,27547,08333	35,28221	25,08074	7,49959,6088	15,16060	
30	71079,94738,72992	1 01052,71920	1 42167,68992	9,85174,70976,7274	10,00454,80043	18: 0
	12,27763,60523	35,26977	25,06757	7,50221,4541	15,16054	
29	71067,66975,12469	1 01017,44943	1 42142,62235	9,85167,20755,2733	10,00439,63989	17:24
	12,27980,08973	35,25733	25,05440	7,50483,3900	15,16049	
28	71055,38995,03496	1 00982,19210	1 42117,56795	9,85159,70271,8833	10,00424,47940	16:48
	12,28196,53683	35,24491	25,04124	7,50745,4163	15,16043	
27	71043,10798,49813	1 00946,94719	1 42092,52671	9,85152,19526,4670	10,00409,31897	16:12
	12,28412,94650	35,23249	25,02809	7,51007,5334	15,16039	
26	71030,82385,55163	1 00911,71470	1 42067,49862	9,85144,68518,9336	10,00394,15858	15:36
	12,28629,31878	35,22008	25,01495	7,51269,7409	15,16034	
25	71018,53756,23285	1 00876,49462	1 42042,48367	9,85137,17249,1927	10,00378,99824	15: 0
	12,28845,65360	35,20768	25,00182	7,51532,0393	15,16029	
24	71006,24910,57925	1 00841,28694	1 42017,48185	9,85129,65717,1534	10,00363,83795	14:24
	12,29061,95101	35,19529	24,98869	7,51794,4286	15,16025	
23	70993,95848,62824	1 00806,09165	1 41992,49316	9,85122,13922,7248	10,00348,67770	13:48
	12,29278,21098	35,18291	24,97558	7,52056,9085	15,16020	
22	70981,66570,41726	1 00770,90874	1 41967,51758	9,85114,61865,8163	10,00333,51750	13:12
	12,29494,43349	35,17054	24,96247	7,52319,4795	15,16017	
21	70969,37075,98377	1 00735,73820	1 41942,55511	9,85107,09546,3368	10,00318,35733	12:36
	12,29710,61856	35,15817	24,94937	7,52582,1414	15,16012	
20	70957,07365,36521	1 00700,58003	1 41917,60574	9,85099,56964,1954	10,00303,19721	12: 0
	12,29926,76617	35,14581	24,93628	7,52844,8944	15,16009	
19	70944,77438,59904	1 00665,43422	1 41892,66946	9,85092,04119,3010	10,00288,03712	11:24
	12,30142,87630	35,13347	24,92320	7,53107,7386	15,16005	
18	70932,47295,72274	1 00630,30075	1 41867,74626	9,85084,51011,5624	10,00272,87707	10:48
	12,30358,94898	35,12112	24,91012	7,53370,6738	15,16002	
17	70920,16936,77376	1 00595,17963	1 41842,83614	9,85076,97640,8886	10,00257,71705	10:12
	12,30574,98416	35,10880	24,89706	7,53633,7003	15,15999	
16	70907,86361,78960	1 00560,07083	1 41817,93908	9,85069,44007,1883	10,00242,55706	9:36
	12,30790,98187	35,09648	24,88400	7,53896,8181	15,15996	
15	70895,55570,80773	1 00524,97435	1 41793,05508	9,85061,90110,3702	10,00227,39710	9: 0
	12,31006,94208	35,08416	24,87095	7,54160,0273	15,15993	
14	70883,24563,86565	1 00489,89019	1 41768,18413	9,85054,35950,3429	10,00212,23717	8:24
	12,31222,86479	35,07185	24,85791	7,54423,3279	15,15991	
13	70870,93341,00086	1 00454,81834	1 41743,32622	9,85046,81527,0150	10,00197,07726	7:48
	12,31438,75000	35,05957	24,84488	7,54686,7200	15,15988	
12	70858,61902,25086	1 00419,75877	1 41718,48134	9,85039,26840,2950	10,00181,91738	7:12
	12,31654,59770	35,04727	24,83186	7,54950,2037	15,15986	
11	70846,30247,65316	1 00384,71150	1 41693,64948	9,85031,71890,0913	10,00166,75752	6:36
	12,31870,40787	35,03499	24,81884	7,55213,7790	15,15984	
10	70833,98377,24529	1 00349,67651	1 41668,83064	9,85024,16676,3123	10,00151,59768	6: 0
	12,32086,18053	35,02273	24,80583	7,55477,4459	15,15982	
9	70821,66291,06476	1 00314,65378	1 41644,02481	9,85016,61198,8664	10,00136,43786	5:24
	12,32301,91565	35,01046	24,79284	7,55741,2046	15,15980	
8	70809,33989,14911	1 00279,64332	1 41619,23197	9,85009,05457,6618	10,00121,27806	4:48
	12,32517,61323	34,99821	24,77984	7,56005,0552	15,15979	
7	70797,01471,53588	1 00244,64511	1 41594,45213	9,85001,49452,6066	10,00106,11827	4:12
	12,32733,27328	34,98597	24,76687	7,56268,9975	15,15978	
6	70784,68738,26260	1 00209,65914	1 41569,68526	9,84993,93183,6091	10,00090,95849	3:36
	12,32948,89576	34,97373	24,75389	7,56533,0319	15,15977	
5	70772,35789,36684	1 00174,68541	1 41544,93137	9,84986,36650,5772	10,00075,79872	3: 0
	12,33164,48069	34,96150	24,74092	7,56797,1583	15,15975	
4	70760,02624,88615	1 00139,72391	1 41520,19045	9,84978,79853,4189	10,00060,63897	2:24
	12,33380,02805	34,94929	24,72797	7,57061,3767	15,15975	
3	70747,69244,85810	1 00104,77462	1 41495,46248	9,84971,22792,0422	10,00045,47922	1:48
	12,33595,53786	34,93707	24,71502	7,57325,6872	15,15974	
2	70735,35649,32024	1 00069,83755	1 41470,74746	9,84963,65466,3550	10,00030,31948	1:12
	12,33811,01006	34,92487	24,70208	7,57590,0899	15,15974	
1	70723,01838,31018	1 00034,91268	1 41446,04538	9,84956,07876,2651	10,00015,15974	0:36
	12,34026,44470	34,91268	24,68914	7,57854,5850	15,15974	
0	70710,67811,86548	1 00000,00000	1 41421,35624	9,84948,50021,6801	10,00000,00000	0: 0
	12,34241,84175	34,90049	24,67623	7,58119,1723	15,15974	

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