



CALCULATION EXEMPLES
EXEMPLES DE CALCUL

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[1] [▲] [▼]

Table of basic arithmetic calculations: 1) 3(5+2)=21, 2) 3x5+2=17, 3) 3x5+3x2=21, 1) 2, 2) 3, 3) 2, 4) 2.

[2] [+], [-], [X], [÷], [()], [+/-], [Exp]

Table of calculations with parentheses and exponentiation: 45+285+3=297, 18+6=24, 15-8=7, 42(-5)+120=-90, (5x10(4x10^-3))=1.25000.

[3]

Table of simple addition and multiplication: 34+57=91, 45+57=102, 79-59=20, 56-59=-3, 56÷8=7, 92÷8=11.5, 68x25=1700, 68x40=2720.

[4] [sin], [cos], [tan], [sin^-1], [cos^-1], [tan^-1], [π], [DRG], [hyp], [arc hyp], [ln], [log], [e^x], [10^x], [X^-1], [X^2], [X^3], [sqrt], [y^x], [x^y]

Table of trigonometric and logarithmic calculations: sin60°=0.866025403, cos21[rad]=0.707106781, tan^-1 1=0.5, (cos5 + sinh 1.5)^2=20.08553692, tanh^-1 5/7=0.895879734, ln 20=2.995732274, log 50=1.698970004, e^3=20.08553692, 10^1.7=50.11872336, 1 + 1/6^7=0.309523809, 8^-2 - 3^4 x 5^2 = -2'024.984375, (12^3)^1/4 = 6.447419591, 8^3=512.

Table of root and power calculations: sqrt(49-4sqrt(1))=81, 3rd root of 27=3, 4! = 24, 10^P3 = 720, 5C2 = 10, 500x25%=125, 120+400=?=30, 500+(500x25%)=625, 400-(400x30%)=280.

Table of inverse trigonometric functions: The range of the results of inverse trigonometric functions, Plage des résultats des fonctions trigonométriques inverses. Includes DEG, RAD, GRAD scales.

[5] [DRG]

Table of angle conversions: 90° to [rad]=1.570796327, sin^-1 0.8 = 0.927295218, 1x10^3 / 2x10^3 = 0.5.

[6] [ALPHA], [RCL], [STO], [M+], [M-], [ANS]
A=56, B=68, A+2+Bx4=300, (8x2)=16, (8x2)x5=80, \$150x3M1=450, \$250:M2=M1+250=250, M2x5%=35, M=665, \$1=¥110, ¥26,510=\$? =241, \$2,750=¥? =302'500, r=3cm, πr^2=? =28.27433388, 24 = 2.4... (A) 4+6 = 2.4, 3x(A)+60+(A)=32.2.

[7]

Table of basic arithmetic with memory: 6+4=ANS=10, ANS+5=15, 8x2=ANS=16, ANS^2=256, 44+37=ANS=81, VANS=9.

[8] [a/b/c], [d/c]

Table of fraction and decimal calculations: 3 1/2 + 4/3 = [a/b/c] = 17/6, 4.833333333, 29.6, 2/3 = 0.666666667, 4.641588834, 7/5^5 = 16807.3125, (1/8)^3 = 0.015625, 1 r 2.

Table of square root and decimal calculations: sqrt(64/225) = 8 r 15, 2^3/3^4 = 8 r 81, 1.2 = 1.2, 1.2, 2.3 = 12 r 23, 1^2 3^1 = 0° 31' 1.5", 1x10^3 / 2x10^3 = 0.5, 1 r 2.

Table of mixed calculations: A=7, 4/A = 4 r 7, 1.25 + 2/5 = [a/b/c] = 1.65, 1 r 13 r 20, 1.65 = 1.65, 1 r 13 r 20, 33 r 20, 1.65, 4 r 5 r 6 = 4.5/6.

[9] [BIN], [PEN], [OCT], [HEX], [DEC], [NEG], [NOT], [AND], [OR], [XOR], [XNOR]
DEC(25) to BIN = 11001 b, HEX(1AC) to BIN = 110101100 b, 3203 P, 654 O, 428. BIN(1010-100) x 11 = 10010 b, BIN(1111) to NEG = 1111111001 b, HEX(1FF)+OCT(512)=HEX(?) = 1511 O, 349 H, 2FEC-2C9E=(A) = 34E H, +)2000-1901=(B) = 6FF H, A4d H, 1011 AND 101 = 1 b, 5A OR C3 = db H, NOT 10110 = 1111101001 b, 24 XOR 4 = 20 O, B3 XNOR = FFFFFFFF61 H, 2D = (HEX) = -159.

[10] [D/M/S], [←→], [DEG]

Table of angle conversions: 12°39'18.05" to [D/M/S] = 12.65501389, 123.678 to [D/M/S] = 123°40'40.8", 3h30m45s + 6h45m36s = 10°16'21", 1234°56'12" + 0°0'34.567" = 1234°56'47", 3h45m - 1.69h = 2°3'36", sin62°12'24" = [D/M/S] = 0.884635235.

[11] [←→], [→], [←→]

Table of coordinate and angle calculations: x=6, y=4, r=5, θ=53.13°, r=14, θ=36[°], x=11.32623792, y=8.228993532, 11.32623792.

[12] [MDF], [SETUP]

Table of setup and calculation: 5+9=ANS=14, ANSx9=126, (FIX,TAB=1) 9 = 81, 5 ÷ 9 = 0.5555555555, 9 ÷ 3 = 3.

\*1 5.5555555555555555x10^-1x9
\*2 0.6x9

[13] DATA (x,y) X Sx OX n Σx Σx² y  
 SY OY ΣY ΣY² ΣXY r a b c  
 X' y' ←→

DATA 95 (MODE) 1 0 0.  
 80 95 (DATA) 1.  
 80 80 (DATA) 2.  
 75 80 (DATA) 3.  
 75 75 (x,y) 3 (DATA) 4.  
 50 50 (DATA) 5.  
 x̄= (RCL) X 75.71428571  
 α= (RCL) OX 12.37179148  
 n= (RCL) n 7.  
 Σx= (RCL) Σx 530.  
 Σx²= (RCL) Σx² 41'200.  
 s̄x= (RCL) Sx 13.3630621  
 s̄x²= (RCL) X² 178.5714286

(95-x̄)/s̄x \* 10+50= ( ( 95 - (ALPHA) X ) / ( (ALPHA) Sx ) \* X ) 10  
 + 50 = 64.43210706

x y (MODE) 1 1 0.  
 2 5 ( (x,y) 5 (DATA) 1.  
 2 5 (DATA) 2.  
 12 24 ( (x,y) 24 (DATA) 3.  
 21 40 ( (x,y) 40 (x,y) 3 (DATA) 4.  
 21 40 ( (x,y) 25 (DATA) 5.  
 21 40 (RCL) a 1.050261097  
 15 25 (RCL) b 1.826044386  
 (RCL) r 0.995176343  
 (RCL) Sx 8.541216597  
 (RCL) Sy 15.67223812

x=3 → y'=? 3 (2ndF) y' 6.528394256  
 y=46 → x'=? 46 (2ndF) X' 24.61590706

x y (MODE) 1 2 0.  
 12 41 ( (x,y) 41 (DATA) 1.  
 8 13 ( (x,y) 13 (DATA) 2.  
 5 2 ( (x,y) 2 (DATA) 3.  
 23 200 ( (x,y) 200 (DATA) 4.  
 15 71 ( (x,y) 71 (DATA) 5.  
 (RCL) a 5.357506761  
 (RCL) b -3.120289663  
 (RCL) c 0.503334057

x=10 → y'=? 10 (2ndF) y' 24.4880159  
 y=22 → x'=? 22 (2ndF) X' 9.63201409  
 (2ndF) ←→ -3.432772026  
 (2ndF) ←→ 9.63201409

[14] DATA ▲ ▼

DATA 30 (MODE) 1 0 0.  
 40 30 (DATA) 1.  
 40 ( (x,y) 2 (DATA) 2.  
 50 50 (DATA) 3.  
 ↓  
 DATA 30 ( (x,y) 3 (DATA) X2 = 45.  
 45 ( (x,y) 3 (DATA) N2 = 3.  
 45 ( (x,y) 3 (DATA) X3 = 60.  
 60 ( (x,y) 3 (DATA)

[16]

Function Fonction	Dynamic range Plage dynamique
sin x, cos x, tan x	DEG: $ x  < 10^{99}$ $(\tan x :  x  \neq 90 (2n-1))^*$ RAD: $ x  < \frac{\pi}{180} \times 10^{10}$ $(\tan x :  x  \neq \frac{\pi}{2} (2n-1))^*$ GRAD: $ x  < \frac{10}{9} \times 10^{10}$ $(\tan x :  x  \neq 100 (2n-1))^*$
sin <sup>-1</sup> x, cos <sup>-1</sup> x	$ x  \leq 1$
tan <sup>-1</sup> x, arctan x	$ x  < 10^{100}$
ln x, log x	$10^{-99} \leq x < 10^{100}$
y <sup>x</sup>	* y > 0: $-10^{100} < x \log y < 100$ * y = 0: $0 < x < 10^{100}$ * y < 0: $x = n$ $(0 <  x  < 1; \frac{1}{x} = 2n-1, x \neq 0)^*$ $-10^{100} < x \log  y  < 100$
x <sup>y</sup>	* y > 0: $-10^{100} < \frac{1}{y} \log x < 100 (x \neq 0)$ * y = 0: $0 < x < 10^{100}$ * y < 0: $x = 2n-1$ $(0 <  x  < 1; \frac{1}{x} = n, x \neq 0)^*$ $-10^{100} < \frac{1}{y} \log  x  < 100$
e <sup>x</sup>	$-10^{100} < x \leq 230.2585092$
10 <sup>x</sup>	$-10^{100} < x < 100$
sinh x, cosh x, tanh x	$ x  \leq 230.2585092$
sinh <sup>-1</sup> x	$ x  < 10^{99}$
cosh <sup>-1</sup> x	$1 \leq x < 10^{99}$
tanh <sup>-1</sup> x	$ x  < 1$
x <sup>2</sup>	$ x  < 10^{99}$
x <sup>3</sup>	$ x  < 2.15443469 \times 10^{33}$
√x	$0 \leq x < 10^{100}$
x <sup>-1</sup>	$ x  < 10^{100} (x \neq 0)$
n!	$0 \leq n \leq 69^*$
nPr	$0 \leq r \leq n \leq 9999999999^*$ $\frac{n!}{(n-r)!} < 10^{100}$
nCr	$0 \leq r \leq n \leq 9999999999^*$ $0 \leq r \leq 69$ $\frac{n!}{r!(n-r)!} < 10^{100}$
⇌DEG, D°M'S	$0^{\circ}0'.00001'' \leq  x  < 10000^{\circ}$
x, y → r, θ	$\sqrt{x^2 + y^2} < 10^{100}$
r, θ → x, y	$0 \leq r < 10^{100}$ DEG: $ \theta  < 10^{10}$ RAD: $ \theta  < \frac{\pi}{180} \times 10^{10}$ GRAD: $ \theta  < \frac{10}{9} \times 10^{10}$
DRG ▶	DEG→RAD, GRAD→DEG: $ x  < 10^{100}$ RAD→GRAD: $ x  < \frac{\pi}{2} \times 10^{98}$

→DEC	DEC : $ x  \leq 9999999999$
→BIN	BIN : $0 \leq x \leq 1111111111$
→PEN	PEN : $0 \leq x \leq 1111111111$
→OCT	OCT : $0 \leq x \leq 4444444444$
→HEX	HEX : $0 \leq x \leq 2222222222$
AND	OCT : $0 \leq x \leq 7777777777$
OR	HEX : $0 \leq x \leq 7777777777$
XOR	HEX : $0 \leq x \leq 2540BE3FF$
XNOR	HEX : $0 \leq x \leq 2540BE3FF$
NOT	BIN : $0 \leq x \leq 1111111111$ PEN : $0 \leq x \leq 4444444444$ OCT : $0 \leq x \leq 7777777777$ HEX : $0 \leq x \leq 2540BE3FE$
NEG	BIN : $0 \leq x \leq 1111111111$ PEN : $0 \leq x \leq 4444444444$ OCT : $0 \leq x \leq 7777777777$ HEX : $0 \leq x \leq 2540BE3FF$

\* n, r: integer / entier

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[15]

$$\bar{x} = \frac{\sum x}{n} \quad \sigma_x = \sqrt{\frac{\sum x^2 - n\bar{x}^2}{n}}$$

$$s_x = \sqrt{\frac{\sum x^2 - n\bar{x}^2}{n-1}} \quad \Sigma x = x_1 + x_2 + \dots + x_n$$

$$\Sigma x^2 = x_1^2 + x_2^2 + \dots + x_n^2$$

$$\bar{y} = \frac{\sum y}{n} \quad \sigma_y = \sqrt{\frac{\sum y^2 - n\bar{y}^2}{n}}$$

$$s_y = \sqrt{\frac{\sum y^2 - n\bar{y}^2}{n-1}} \quad \Sigma xy = x_1y_1 + x_2y_2 + \dots + x_ny_n$$

$$\Sigma y = y_1 + y_2 + \dots + y_n$$

$$\Sigma y^2 = y_1^2 + y_2^2 + \dots + y_n^2$$