

Canon

F-789SGA

Calculation Examples

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E-IM-2808

ENGLISH

FRANÇAIS

РУССКИЙ

MAGYAR

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ROMÂNĂ

ČESKÁ VERZE

БЛГАРСКИ

SLOVENŠČINA

HRVATSKI

SLOVENSKY

TÜRK

EX #1

Example	Key In Operation	Display
Including $\boxed{\times}$ *1, $\boxed{)}$ *2, $\boxed{)}$ *3	 2 $\boxed{\times}$ log 1 0 0) $\boxed{\times}$ ↑ ↑ ↑ *1 *2 3 (1 + 3) = ↑ 3	2xlog(100)x(1+3) 16
Omitting $\boxed{\times}$ *1, $\boxed{)}$ *3	2 log 1 0 0) (1 + 3 =	2log(100)(1+3) 16

EX #2

LINE MODE:   

Mode Setting	Key In operation	Display (input Line only)
		12345 12345
Method 1: Insert mode	1234567 $\boxed{+}$ 889900 \leftarrow 7 times  	1234567 $\text{l}+$ 889900
Method 2: Overwrite mode	Shift SET-UP  1234567 $\boxed{+}$ 889900 Shift Insert \leftarrow 8 times 	1234567+889900_ 1234567+889900 1234560+889900

EX #3

LINE MODE:   

Mode Setting 	Key In operation 	Display 12345 12345
Method 1:	 12times	12 34567+889900
Insert mode		1 34567+889900
Method 2:	 	1234567+889900_
Overwrite mode	 13times	1 <u>2</u> 34567+889900
		1 <u>3</u> 4567+889900

EX #4

MATHEMATICS MODE:   

Mode Setting 	Key In operation 	Display 12345 12345
Insert mode	 6times	1234567+ 889900
		1234567+2 889900

EX #5

MATHEMATICS MODE:   

Example 	Key in operation 	Display 12345 12345
$\left \sqrt{3} - \frac{2}{\sqrt{2}} \right $	         	$\left \sqrt{3} - \frac{2}{\sqrt{2}} \right $ $\sqrt{3} - \sqrt{2}$

EX #6**Calculation Precision, Input Range /****Calcul de précision, plages des valeurs****d'entrée / Расчет точности, Входной диапазон /****Számítási pontosság, Bemeneti tartomány / Precyzyjnych obliczeń, Zakres wejściowy / Precizie de calcul, Gama de intrare / Výpočet Precision, vstupní rozsah / Изчисляване на точност, обхват на входното / Izračun Precision, Območje vhodnih podatkov / Proračun precizni, ulaznog raspona / Proračun precizni, ulaznog raspona / Calculation Precision, Input Range**

E	Number of Digits for Internal Calculation Precision*	18 digits ±1 at the 10 th digit for a single calculation ±1 at the least significant for exponential display
	Calculation Range	±1 × 10 ⁻⁹⁹ to ±9.999999999 × 10 ⁹⁹ or 0
F	Nombre de chiffres pour les calculs internes	18 chiffres
	Précision*	±1 sur le dixième chiffre pour un calcul unique ±1 sur le dernier chiffre significatif pour l'affichage exponentiel
	Plage de calcul	±1 × 10 ⁻⁹⁹ à ±9.999999999 × 10 ⁹⁹ ou 0
RU	Количество разрядов во внутреннем вычислении	18 цифры
	Точность*	±1 в 10-м знаке для одного вычисления ±1 в последней значащей цифре для экспоненциального отображения
	Диапазон вычислений	±1 × 10 ⁻⁹⁹ à ±9.999999999 × 10 ⁹⁹ или 0
HU	Belső számítások számjegyeinek száma	18 számjegy
	Pontosság*	±1 a 10. számjegynél, egyetlen számítás esetében ±1 a legkevésbé értékes számjegynél, exponenciális kijelzés esetében
	Számítási tartomány	±1 × 10 ⁻⁹⁹ to ±9.999999999 × 10 ⁹⁹ vagy 0
PL	Liczba cyfr w wewnętrznych obliczeniach	18 cyfr
	Dokładność*	±1 10-tej cyfry w przypadku obliczeń pojedynczych ±1 ostatniej znaczącej cyfry w przypadku obliczeń wykładniczych
	Zakres obliczeń	±1 × 10 ⁻⁹⁹ a ±9.999999999 × 10 ⁹⁹ lub 0

RO	Numărul de cifre pentru calcul intern Precizie*	18 cifre ± 1 la a 10-a cifră pentru un singur calcul ± 1 la ultima cifră semnificativă pentru afișarea exponentială $\pm 1 \times 10^{-99}$ tot $\pm 9.99999999 \times 10^{99}$ sau 0
CZ	Počet číslic pro interní výpočet Přesnost*	18 číslice ± 1 na místě 10. číslice u jednoho výpočtu ± 1 na místě poslední platné číslice u exponenciálního zobrazení $\pm 1 \times 10^{-99}$ til $\pm 9.99999999 \times 10^{99}$ nebo 0
BG	Брой цифри за вътрешни изчисления Точност*	18 цифри ± 1 при 10тата цифра на единично изчисление ± 1 на последната значима цифра при експоненциално представяне $\pm 1 \times 10^{-99}$ to $\pm 9.99999999 \times 10^{99}$ или 0
SL	Število znakov notranjega izračuna Natančnost*	18 število ± 1 pri 10. številki za posamezen izračun ± 1 pri najmanj pomembni številki za eksponentni prikaz $\pm 1 \times 10^{-99}$ to $\pm 9.99999999 \times 10^{99}$ ali 0
HR	Broj znamenki unutarnjeg izracuna Preciznost*	18 znamenki ± 1 no na 10. znamenku svakog izračuna ± 1 na posljednju značajnu znamenku za prikaz eksponenta $\pm 1 \times 10^{-99}$ a $\pm 9.99999999 \times 10^{99}$ ili 0
SK	Počet číslic pri internom výpočte Presnosť*	18 číslic 1 na desiatej číslici v prípade jedného výpočtu 1 na poslednej platnej číslici v prípade exponenciálneho zobrazenia 1×10^{-99} alebo $9.99999999 \times 10^{99}$
TU	İç Hesaplama Basamakları sayısı Hassas *	18 rakam Tek bir hesaplama için 10 rakamı ± 1 Üstel gösterim için en önemli ± 1 $\pm 1 \times 10^{-99}$ için $9.99999999 \times 10^{99}$ veya 0

**Input Ranges / Plages des valeurs d'entrée /
диапазоны вводимых значений / Beviteli
tartományok / Zakresy wprowadzanych danych /
Domeniile de definiție / Definiční obory / диапазон
за въвеждане / Obsegvi vnosov / Rasponi unosa /
Vstupné rozsahy / Giriş Aralığı**

Functions	Input Range	
sinx	DEG	$0 \leq x < 9 \times 10^9$
	RAD	$0 \leq x < 157\ 079\ 632.7$
	GRA	$0 \leq x < 1 \times 10^{10}$
cosx	DEG	$0 \leq x < 9 \times 10^9$
	RAD	$0 \leq x < 157\ 079\ 632.7$
	GRA	$0 \leq x < 1 \times 10^{10}$
tanx	DEG	Same as sinx, except when $ x = (2n-1) \times 90$
	RAD	Same as sinx, except when $ x = (2n-1) \times \pi/2$
	GRA	Same as sinx, except when $ x = (2n-1) \times 100$
$\sin^{-1}x$	$0 \leq x \leq 1$	
$\cos^{-1}x$	$0 \leq x \leq 9.999\ 999\ 999 \times 10^{99}$	
sinhx	$0 \leq x \leq 230\ 258\ 509\ 2$	
coshx	$0 \leq x \leq 4.999\ 999\ 999 \times 10^{99}$	
$\sinh^{-1}x$	$1 \leq x \leq 4.999\ 999\ 999 \times 10^{99}$	
$\cosh^{-1}x$	$0 \leq x \leq 9.999\ 999\ 999 \times 10^{99}$	
tanhx	$0 \leq x \leq 9.999\ 999\ 999 \times 10^{-1}$	
$\log x/\ln x$	$0 < x \leq 9.999\ 999\ 999 \times 10^{99}$	
10^x	$-9.999\ 999\ 999 \times 10^{99} \leq x \leq 99.999\ 999\ 99$	
e^x	$-9.999\ 999\ 999 \times 10^{99} \leq x \leq 230.258\ 509\ 2$	
\sqrt{x}	$0 \leq x < 1 \times 10^{100}$	
x^2	$ x < 1 \times 10^{50}$	
x^3	$ x \leq 2.154\ 434\ 69 \times 10^{33}$	
x^{-1}	$ x < 1 \times 10^{100}, x \neq 0$	
$\sqrt[3]{x}$	$ x < 1 \times 10^{100}$	
$x!$	$0 \leq x \leq 69$ (x is an integer)	

Functions	Input Range
nPr	$0 \leq n < 1 \times 10^{10}$, $0 \leq r \leq n$ (n,r are integers) $1 \leq \{n!/(n-r)!\} < 1 \times 10^{100}$
nCr	$0 \leq n < 1 \times 10^{10}$, $0 \leq r \leq n$ (n,r are integers) $1 \leq n!/r! < 1 \times 10^{100}$ or $1 \leq n!/(n-r)! < 1 \times 10^{100}$
Pol(x,y)	$ x , y \leq 9.999\ 999\ 999 \times 10^{99}$ $\sqrt{x^2+y^2} \leq 9.999\ 999\ 999 \times 10^{99}$
Rec(r,θ)	$0 \leq r \leq 9.999\ 999\ 999 \times 10^{99}$ θ : Same as $\sin x$
o / //	$ a , b, c < 1 \times 10^{100}$ $0 \leq b, c$ The display seconds value is subject to an error of ± 1 at the second decimal place
◀ o / //	$ x < 1 \times 10^{100}$ Deciaml \leftrightarrow Sexagesimal Conversions $0^\circ 0' 0'' \leq x \leq 99999999^\circ 59' 59''$
${}^{\wedge}(x^y)$	$x > 0: -1 \times 10^{100} < y \log x < 100$ $x = 0: y > 0$ $x < 0: y = n, m/(2n+1)$ (m,n are integers) However: $-1 \times 10^{100} < y \log x < 100$
$x\sqrt[y]{ }$	$y > 0: x \neq 0, -1 \times 10^{100} < 1/x \log y < 100$ $y = 0: x > 0$ $y < 0: x = 2n+1, (2n+1)/m$ ($m \neq 0; m,n$ are integers)
a b/c	Total of integer, numerator, and denominator must be 10 digits or less (including division marks).
i~Rand(a,b)	$0 \leq a < 1 \times 10^{10}$, $0 \leq b < 1 \times 10^{10}$ (a,b should be positive integers or 0)
Rand	Result generates a 3 digits pseudo random number(0.000~0.999)
LCM(x,y,z)	$0 < x, y, z \leq 9.999\ 999\ 999 \times 10^{12}$ (positive integers) Default result when $x, y, z=0$
GCD(x,y,z)	$0 < x, y, z \leq 9.999\ 999\ 999 \times 10^{12}$ (positive integers) Default result when $x, y, z=0$

Functions	Input Range
Q...r(x,y)	$0 < x, y \leq 9.999\ 999\ 999 \times 10^{12}$ (positive integers) $0 \leq Q \leq 999\ 999\ 999, 0 \leq r \leq 999\ 999\ 999$ (Q,r are integers) Default result when x=0
Mod(x,y)	$0 < x,y \leq 9.999999999 \times 10^{12}$ Default result=x when y=0
Single-variable	$ x < 1 \times 10^{100}$ $ FREQ < 1 \times 10^{100}$
Paired-variable	$ x < 1 \times 10^{100}$ $ y < 1 \times 10^{100}$ $ FREQ < 1 \times 10^{100}$
ABS	$ x < 1 \times 10^{100}$
Pfact	$x \leq 999999999$ (positive integers)
BIN	Positive: 0~0111 1111 1111 1111 1111 1111 1111 1111 Negative: 1000 0000 0000 0000 0000 0000 0000~1111 1111 1111 1111 1111 1111 1111 1111
DEC	Positive: 0~2147483647 Negative: -2147483648~-1
OCT	Positive: 0~177 7777 7777 Negative: 200 0000 0000~377 7777 7777
HEX	Positive: 0~7FFF FFFF Negative: 8000 0000~FFFF FFFF
$\sum (f(x), a, b)$	a and b are integers in the range of $-1 \cdot 10^{10} < a \leq b < 1 \cdot 10^{10}$.
$\prod (f(x), a, b)$	a and b are integers in the range of $-1 \cdot 10^{10} < a \leq b < 1 \cdot 10^{10}$.

EX #7

1st Priority	Recall memory (A, B, C, D, E, F, 0-9), Rand
2nd	Calculation within parentheses ().
3rd	Function with parenthesis that request the input argument to the right Pol(), Rec(), d/dx, /dx, P(), Q(), R(), Det(), Trn(), Ide(), Adj(), Inv(), Arg(), Conjg(), Real(), Imag(), sin(), cos(), tan(), sin ⁻¹ (), cos ⁻¹ (), tan ⁻¹ (), sinh(), cosh(), tanh(), sinh ⁻¹ (), cosh ⁻¹ (), tanh ⁻¹ (), log(), ln(), e^(), 10^(), √(), ³√(), Abs(), ROUND(), LCM(), GCD(), Q...r(), i~Rand(),
4th	Functions that come after the input value preceded by values, powers, power roots: x^2 , x^3 , x^{-1} , $x!$, \circ , \circ , r , g , $^{\wedge}$, $\sqrt[n]{\quad}$, Percent %, log _a b, EXP, ►t
5th	Fractions: a b/c, d/c
6th	Prefix symbol: (–) (negative sign), base-n symbols (d, h, b, o, Neg, Not)
7th	Statistical estimated value calculation: \hat{x} , \hat{y} , \hat{x}_1 , \hat{x}_2 Metric conversion commands (cm → in, etc)
8th	Multiplication where sign is omitted: Multiplication sign omitted immediately before π, e, variables (2π , $5A$, πA , etc.), functions with parentheses ($2\sqrt{3}$, Asin(30), etc.)
9th	Permutations, combinations: nPr, nCr Complex number polar coordinate symbol (<)
10th	Dot: •
11th	Multiplication and division: ×, ÷
12th	Addition and subtraction: +, –
13th	Logical AND (and)
14th	Logical OR, XOR, XNOR (or, xor, xnor)
15th	Calculation ending instruction: =, M+, M-, STO (store memory), ►r<θ, ►a+bi

EX #8

MATHEMATICS MODE: Shift SET-UP 1

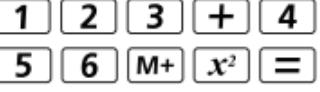
Example 	Key in operation 	Display
$(-2.5)^2$		$(-2.5)^2$
$(4 \times 10^{75})(-2 \times 10^{-79})$		$4 \times 10^{75} \times -\frac{1}{1250}$

EX #9

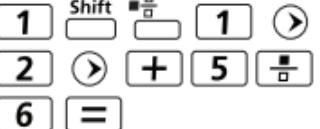
MATHEMATICS MODE: Shift SET-UP 1

Example 	Key in operation 	Display
$23 + 7 \rightarrow A$		$23+7 \rightarrow A$
$2 \times \sin A = 1$		$2\sin(A) = 1$
Clear memory		$0 \rightarrow A$

EX #10**MATHEMATICS MODE:**   

Example 	Key in operation 	Display 12345 12345
$123 + 456 \rightarrow M+$, $\text{Ans}^2 = 335,241$	 1 2 3 + 4 5 6 M+ x ² =	Ans^2 335241
$789900 - \text{Ans} =$ 454,659	 7 8 9 9 0 0 - Ans =	789900-Ans 454659

EX #11**MATHEMATICS MODE:**   

Example 	Key in operation 	Display 12345 12345
$1\frac{1}{2} + \frac{5}{6} = \frac{7}{3}$	 1 Shift  1 2  + 5  6 =	$1\frac{1}{2} + \frac{5}{6}$ $\frac{7}{3}$
$\frac{7}{3} \leftrightarrow 2.333333333$ (Fraction \leftrightarrow Decimal)		$1\frac{1}{2} + \frac{5}{6}$ 2.333333333
2.333333333 $\leftrightarrow 2\frac{1}{3}$ (Decimal \leftrightarrow Mixed Fraction)	 Shift 	$1\frac{1}{2} + \frac{5}{6}$ $2\frac{1}{3}$

EX #12

MATHEMATICS MODE: Shift SET-UP 1

Example 	Key in operation 	Display
To calculate 25% of 820	8 2 0 × 2 5 Shift % = =	820×25% 205
The percentage of 750 against 1250	7 5 0 ÷ 1 2 5 0 Shift % = =	750÷1250% 60

EX #13

MATHEMATICS MODE: Shift SET-UP 1

Example 	Key in operation 	Display
86°37'34.2" ÷ 0.7 = 123°45'6"	8 6 ° ' " 3 7 ° ' " 3 4 • 2 ° ' " ÷ 0 • 7 =	86°37 ° 34.2 ° ÷ 0.7 123°45'6"
123°45'6" → 123.7516667	° ' "	86°37 ° 34.2 ° ÷ 0.7 123.7516667
2.3456 → 2°20'44.16"	2 • 3 4 5 6 = ° ' "	2.3456 2°20'44.16"

EX #14

MATHEMATICS MODE: Shift SET-UP 1

Example 	Key in operation 	Display 12345 12345
1x12=12 2+25=27 using a multi-statement		1x12:2+25
		1x12 ▲ Disp 12
		2+25 ▲ 27
Replay the previous calculation history (1 x 12 = 12)		1x12 ▼ 12

EX #15

MATHEMATICS MODE: Shift SET-UP 1

Key in Operation 	Display 12345 12345
Shift C-Value 	Input 1 – 79 0.0 ◀ MP Mn me mμ ao ▶
	g
	g+35 44.80665
	Ansx50 2240.3325

EX #16

NO.	Constant	Symbol	Value	Unit
1.	Proton mass	m_p	$1.672621777 \times 10^{-27}$	kg
2.	Neutron mass	m_n	$1.674927351 \times 10^{-27}$	kg
3.	Electron mass	m_e	$9.10938291 \times 10^{-31}$	kg
4.	Muon mass	m_μ	$1.883531475 \times 10^{-28}$	kg
5.	Bohr radius $\alpha / 4\pi R \infty$	a_0	$0.52917721092 \times 10^{-10}$	m
6.	Planck constant	\hbar	$6.62606957 \times 10^{-34}$	J s
7.	Nuclear magneton $e \hbar / 2m_p$	μ_N	$5.05078353 \times 10^{-27}$	J T ⁻¹
8.	Bohr magneton $e \hbar / 2m_e$	μ_B	$927.400968 \times 10^{-26}$	J T ⁻¹
9.	$\hbar / 2\pi$	γ	$1.054571726 \times 10^{-34}$	J s
10.	Fine-structure constant $e^2 / 4\pi \epsilon_0 \hbar c$	α	$7.2973525698 \times 10^{-3}$	
11.	Classical electron radius $\alpha^2 a_0$	r_e	$2.8179403267 \times 10^{-15}$	m
12.	Compton wavelength $\hbar / m_e c$	λ_c	$2.4263102389 \times 10^{-12}$	m
13.	Proton gyromagnetic ratio $2\mu_p / \gamma$	γ_p	2.675222005×10^8	s ⁻¹ T ⁻¹
14.	Proton Compton wavelength $\hbar / m_p c$	$\lambda_{c,p}$	$1.32140985623 \times 10^{-15}$	m
15.	Neutron Compton wavelength $\hbar / m_n c$	$\lambda_{c,n}$	$1.3195909068 \times 10^{-15}$	m
16.	Rydberg constant $\alpha^2 m_e c / 2 \hbar$	R_∞	10973731.568539	m ⁻¹
17.	(unified) atomic mass unit	u	$1.660538921 \times 10^{-27}$	kg
18.	Proton magnetic moment	μ_p	$1.410606743 \times 10^{-26}$	J T ⁻¹
19.	Electron magnetic moment	μ_e	$-928.476430 \times 10^{-26}$	J T ⁻¹
20.	Neutron magnetic moment	μ_n	$-0.96623647 \times 10^{-26}$	J T ⁻¹
21.	Muon magnetic moment	μ_μ	$-4.49044807 \times 10^{-26}$	J T ⁻¹
22.	Faraday constant N _A e	F	96485.3365	C mol ⁻¹
23.	Elementary charge	e	$1.602176565 \times 10^{-19}$	C
24.	Avogadro constant	N _A	$6.02214129 \times 10^{23}$	mol ⁻¹
25.	Boltzmann constant R / N _A	k	$1.3806488 \times 10^{-23}$	J K ⁻¹
26.	Molar volume of ideal gas RT / p T=273.15 K, p=101.325 kPa	V _m	22.413968×10^{-3}	m ³ mol ⁻¹
27.	Molar gas constant	R	8.3144621	J mol ⁻¹ K ⁻¹
28.	Speed of light in vacuum	c ₀	299792458	m s ⁻¹
29.	First radiation constant $2\pi \hbar c^2$	c ₁	$3.74177153 \times 10^{-16}$	W m ²
30.	Second radiation constant hc/k	c ₂	1.4387770×10^{-2}	m K

NO.	Constant	Symbol	Value	Unit
31.	Stefan-Boltzmann constant	σ	5.670373x10 ⁻⁸	$\text{W m}^{-2} \text{K}^{-4}$
32.	Electric constant 1 / $\mu_0 c^2$	ϵ_0	8.854187817 x10 ⁻¹²	Fm^{-1}
33.	Magnetic constant	μ_0	12.566370614x10 ⁻⁷	N A^{-2}
34.	Magnetic flux quantum $h / 2e$	Φ_0	2.067833758 x10 ⁻¹⁵	Wb
35.	Standard acceleration of gravity	g	9.80665	ms^{-2}
36.	Conductance quantum $2e^2/h$	G_0	7.7480917346x10 ⁻⁵	S
37.	Characteristic impedance of vacuum $\sqrt{\mu_0 / \epsilon_0} = \mu_0 c$	Z_0	376.730313461	Ω
38.	Celsius temperature	t	273.15	
39.	Newtonian constant of gravitation	G	6.67384 x10 ⁻¹¹	$\text{m}^3 \text{kg}^{-1} \text{s}^{-2}$
40.	Standard atmosphere	atm	101325	Pa
41.	Proton g-factor $2 \mu_p / \mu_N$	g_p	5.585694713	
42.	$\lambda_{c,n} / 2\pi$	$\tilde{\lambda}_{c,n}$	0.21001941568x10 ⁻¹⁵	m
43.	Planck length $\tilde{l} / \text{mpc} = (\hbar G / c^3)^{1/2}$	l_p	1.616199x10 ⁻³⁵	m
44.	Planck time $l_p / c = (\hbar G / c^5)^{1/2}$	t_p	5.39106x10 ⁻⁴⁴	s
45.	Planck mass $(\hbar c / G)^{1/2}$	m_p	2.17651 x10 ⁻⁸	kg
46.	Atomic mass constant	m_u	1.660538921 x10 ⁻²⁷	kg
47.	Electron volt: $(e/c) J$	eV	1.602176565x10 ⁻¹⁹	J
48.	Molar planck constant	$N_A h$	3.9903127176x10 ⁻¹⁰	J s mol^{-1}
49.	Wien displacement law constant	b	2.8977721 x10 ⁻³	m K
50.	Lattice parameter of Si(in vacuum, 22.5°C)	a	543.1020504 x 10 ⁻¹²	m
51.	Hartree energy $e^2 / 4 \pi \epsilon_0 a_0$	Eh	4.35974434 x10 ⁻¹⁸	J
52.	Loschmidt constant N_A / Vm	n_0	2.6867805 x10 ²⁵	m^{-3}
53.	Inverse of conductance quantum	G_0^{-1}	12906.4037217	Ω
54.	Josephson constant $2e/h$	K_J	483597.870 x10 ⁹	Hz V^{-1}
55.	Von Klitzing constant h/e^2	R_K	25812.8074434	Ω
56.	$\lambda_c / 2\pi$	$\tilde{\lambda}_c$	386.15926800x10 ⁻¹⁵	m
57.	Thomson cross section $(8\pi / 3)r_e^2$	σ_e	0.6652458734 x10 ⁻²⁸	m^2
58.	Electron magnetic moment anomaly $ \mu_e / \mu_B - 1$	a_e	1.15965218076 x10 ⁻³	
59.	Electron g-factor-2($1 + a_e$)	g_e	-2.00231930436153	
60.	Electron gyromagnetic ratio $2 \mu_e / \hbar$	γ_e	1.760859708x10 ¹¹	$\text{s}^{-1} \text{T}^{-1}$
61.	Muon magnetic moment anomaly	a_μ	1.16592091 x10 ⁻³	
62.	Muon g-factor-2($1 + a_\mu$)	g_μ	-2.0023318418	

NO.	Constant	Symbol	Value	Unit
63.	Muon Compton wavelength $h / m_{\mu} c$	$\lambda_{c,\mu}$	11.73444103x10 ⁻¹⁵	m
64.	$\lambda_{c,\mu} / 2\pi$	$\tilde{\pi}_{c,\mu}$	1.867594294x10 ⁻¹⁵	m
65.	Tau Compton wavelength $h / m_{\tau} c$	$\lambda_{c,\tau}$	0.697787 x10 ⁻¹⁵	m
66.	$\lambda_{c,\tau} / 2\pi$	$\tilde{\pi}_{c,\tau}$	0.111056 x10 ⁻¹⁵	m
67.	Tau mass	m_{τ}	3.16747 x10 ⁻²⁷	kg
68.	$\lambda_{c,p} / 2\pi$	$\tilde{\pi}_{c,p}$	0.21030891047 x10 ⁻¹⁵	m
69.	Shielded proton magnetic moment(H_2O , sphere, 25°C)	μ'_{p}	1.410570499 x10 ⁻²⁶	J T ⁻¹
70.	Neutron g-factor 2 μ_n / μ_N	g_n	-3.82608545	
71.	Neutron gyromagnetic ratio $2 \mu_n / \hbar$	γ_n	1.83247179 x10 ⁸	s ⁻¹ T ⁻¹
72.	Deuteron mass	m_d	3.34358348 x10 ⁻²⁷	kg
73.	Deuteron magnetic moment	μ_d	0.433073489 x10 ⁻²⁶	J T ⁻¹
74.	Helion mass	m_h	5.00641234 x10 ⁻²⁷	kg
75.	Shielded helion magnetic moment(gas, sphere, 25°C)	μ'_h	-1.074553044 x10 ⁻²⁶	J T ⁻¹
76.	Shielded helion gyromagnetic ratio $2 \mu'_h / \hbar$ (gas, sphere, 25°C)	γ'_h	2.037894659 x10 ⁸	s ⁻¹ T ⁻¹
77.	Alpha particle mass	m_{α}	6.64465675 x10 ⁻²⁷	kg
78.	Shielded proton gyromagnetic ratio $2 \mu'_{p} / \hbar$ (H_2O , sphere, 25°C)	γ'_{p}	2.675153268 x10 ⁸	s ⁻¹ T ⁻¹
79.	Proton magnetic shielding correction $1 - \mu'_{p} / \mu_p$ (H_2O , sphere, 25°C)	σ'_{p}	25.694 x10 ⁻⁶	

! Constant values cannot perform rounding. / Les valeurs constantes ne peuvent pas effectuer d'arrondi. / Постоянные значения не могут выполнить округление / Konstans értékek nem tudja ellátni kerekítés / Wartości stałe nie może wykonać zaokraglenie / Valori constante nu se poate efectua de rotunjire / Konstantní hodnoty nelze provést zaokrouhlení / Постоянни стойности не може да извършива закръгляване / Stalne vrednosti, ne more izvesti zaokroževanje / Konstantne vrijednosti ne može obavljati zaokruživanje / Konštantné hodnoty nemožno vykonať zaokrúhlenie / Sabit değerler yuvarlama gerçekleştirebilir olamaz

Source: CODATA Internationally 2010 / **Source:** Conférence internationale CODATA 2010 / **Источник:** CODATA Международно 2010 /

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EX #17

Page	Symbol	Unit
1	feet	feet
1	m	meter
1	mil	milliliter
1	mm	millimeter
1	in	inch
1	cm	centimeter
1	yd	yard
1	mile	mile
1	km	kilometer
2	ft ²	square foot
2	yd ²	square yard
2	m ²	square meter
2	mile ²	square mile
2	km ²	square kilometer
2	hectares	hectare
2	acres	acre
3	°F	degree Fahrenheit
3	°C	degree Celsius
4	gal	gallon (U.K.)
4	liter	liter
4	B.gal	gallon (U.S.)
4	pint	pint
4	fl.oz	fluid ounces (U.S.)
5	Tr.oz	ounce (troy or apothecary)
5	oz	ounces
5	lb	libra
5	Kg	kilogram
5	g	gram
6	J	joule
6	cal.f	calorie
7	atm	standard atmosphere
7	Kpa	kilopascal
7	mmHg	millimeter of mercury
7	cmH ₂ O	centimeter of water
8	m/s	Meter per second
8	km/h	Kilometer per hour

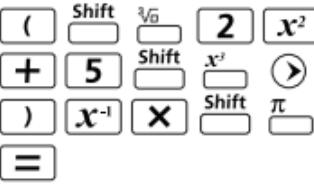
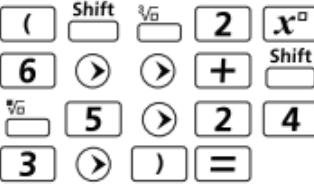
EX #18

MATHEMATICS MODE:    1

Key in Operation	Display
	
1 0 + 5 CONVT (menu selection menu)	Unit (distance) ▾ feet m mil mm in cm yd mile km
▼ = (confirm selection ft ²)	ft ² yd ² m ² mile ² km ² ha acres
▶ ▶ = (confirm the value convert into m ²)	10+5ft ² ▶ m ²
=	10+5ft ² ▶ m ² ▾ 10.4645152

EX #19

MATHEMATICS MODE:    1

Example	Key in operation	Display
$\left(\sqrt[3]{2^2 + 5^3}\right)^{-1} \times \pi$ = 0.6217559776	 	 $\left(\sqrt[3]{2^2 + 5^3}\right)^{-1} \times \pi$ 0.6217559776
$\left(\sqrt[3]{2^6} + \sqrt[5]{243}\right)$ = 7		$\left(\sqrt[3]{2^6} + \sqrt[5]{243}\right)$ 7

EX #20

MATHEMATICS MODE: Shift SET-UP 1

Example 	Key in operation 	Display
$e^{-3} + 10^{1.2} + \ln 3 =$ 16.99733128	Shift e ^a (-) 3 ➤ + Shift 10 ^b 1 • 2 ➤ + ln 3 =	$e^{-3} + 10^{1.2} + \ln(3)$ 16.99733128
$\log_3 81 - \log 1 = 4$	Alpha log _{a/b} 3 ➤ 8 1 ➤ - log 1 =	$\log_3(81) - \log(1)$ 4

EX #21

MATHEMATICS MODE: Shift SET-UP 1

Example 	Key in operation 	Display
Convert 180 degree into radian and gradient ($180^\circ = \pi^{\text{Rad}} = 200^{\text{Grad}}$)	Shift SET-UP 4 1 8 0 Shift DRG ➤ 1 = Shift SET-UP 5 =	180° R π 180° 200

EX #22

MATHEMATICS MODE: Shift SET-UP 1

Example 	Key in operation 	Display
Degree Mode	Shift SET-UP 3	D
$\sin 60 = \frac{\sqrt{3}}{2}$	sin 6 0 =	$\sin(60)$ $\frac{\sqrt{3}}{2}$
$\frac{1}{\sin 45^\circ} = \text{Cosec } 45^\circ = \sqrt{2}$	sin 4 5) x^{-1} =	$\sin(45)^{-1}$ $\sqrt{2}$

EX #23

MATHEMATICS MODE: Shift SET-UP 1

Example 	Key in operation 	Display 12345 12345
$\sinh 2.5 - \cosh 2.5$ = -0.082084998	hyp 1 2 • 5) - hyp 2 2 • 5) =	$\sinh(2.5) - \cosh(2.5)$ -0.08208499862
$\text{Cosh}^{-1} 45$ = 4.499686191	hyp 5 4 5 =	$\cosh^{-1}(45)$ 4.499686191

EX #24

MATHEMATICS MODE: Shift SET-UP 1

Example 	Key in operation 	Display 12345 12345
$10P_3 = 720$	1 0 Shift nPr 3 =	$10P_3$ 720
$5C_2 = 10$	5 Shift nCr 2 =	$5C_2$ 10
$5! = 120$	5 Shift x! =	5! 120

EX #25

MATHEMATICS MODE: Shift SET-UP 1

Example 	Key in operation 	Display 12345 12345
Generate a random number between 0.000 & 0.999	Shift Rand =	Rand $\frac{139}{1000}$
Generate an integer from a range of 1 to 100	Alpha i-Rand 1 Shift , 1 0 0 =	i~Rand(1,100 33

EX #26 MATHEMATICS MODE:

Shift SET-UP 1

Key in operation	Display
 Apps 1 Alpha X + 1 > 0 > 5 =	12345 $\frac{5}{\pi} (x+1)$ $x=0$ 720

EX #27 LINE MODE:

2

Key in operation	Display
 Apps 2 Alpha X + 1 Shift , 1 Shift , 5 =	12345 $\sum (x+1, 1, 5)$ 20

EX #28 LINE MODE:

2

Example	Key in operation	Display
To calculate Maximum value of 3, sin30 and cos30	 Apps 3 Shift , sin 3 0) Shift , cos 6 0 =	Max(3, sin(30), C) 3
To calculate Minimum value of 3, sin30 and cos30	Apps 4 3 Shift , sin 3 0) Shift , cos 6 0 =	Min(3, sin(30), C) $\frac{1}{2}$

EX #29 MATHEMATICS MODE:

Shift SET-UP 1

Example	Key in operation	Display
The modulus after division (Mod) of 23 and 5	Apps 6 2 3 Shift , 5 =	Mod(23, 5) 3
The modulus after division (Mod) of -23 and 5	Apps 6 (-) 2 3 Shift , 5 =	Mod(-23, 5) 2

EX #30 MATHEMATICS MODE:

Example 	Key in operation 	Display 12345 12345
LCM(15, 27, 39) = 1755	Apps 7 1 5 Shift , 2 7 Shift , 3 9 =	LCM(15,27,39) 1755

LINE MODE:

Example 	Key in operation 	Display 12345 12345
GCD(12, 24, 60) = 12	Apps 8 1 2 Shift , 2 4 Shift , 6 0 =	GCD(12,24,60) 12

EX #31 MATHEMATICS MODE:

Key in Operation 	Display 12345 12345
9 9 9 9 9 9 9 9 9 9 = Shift PFact	9999999999 $3^2 \times 11 \times 41 \times 271 \times (9 \blacktriangleright)$
1 7 7 7 = Shift PFact	1777 (1777)

EX #32 LINE MODE:

Example 	Key in operation 	Display 12345 12345
$35 \div 10 = 3 \times 10 + 5$ Q=3 R=5	Apps 5 3 5 Shift , 1 0 =	Q...r(35, 10) Q= 3 R= 5
Quotient value (Q) + 3 = 6	+ 3 =	Ans+3 6
Recall Quotient value (Q)	RCL C	C 3
Recall Remainder value (r)	RCL D	D 5

EX #33**MATHEMATICS MODE:**

Shift SET-UP 1

Example 	Key in operation 	Display
With rectangular coordinate ($x=1$, $y=\sqrt{3}$). Find Polar coordinate (r, θ) at degree mode	Shift Pol(1 Shift , √ 3 = RCL x RCL y	Pol(1, $\sqrt{3}$ $r=2, \theta=60$ X Y 60

EX #34**LINE MODE:**

Shift SET-UP 2

Example 	Key in operation 	Display
With Polar coordinate ($r=2, \theta=60^\circ$). Find Rectangular coordinate (x, y) at degree mode	Shift Rec(2 Shift , 6 0 = RCL x RCL y	Rec(2, 60 X= 1 Y= 1.732050808 X Y 1.732050808

EX #35**MATHEMATICS MODE:**

Shift SET-UP 1

Example 	Key in operation 	Display
$ \sin(60 - 5) \times (-\pi) $	Abs sin 6 0 - 5) X ((-) Shift π) =	$ \sin(60 - 5) \times (-\pi) $ 2.573442045

EX #36**LINE MODE:**

Shift SET-UP 2

Example 	Key in operation 	Display
$1 \div 200 = 5 \times 10^{-3}$	1 ÷ 2 0 0 =	1 ÷ 200 5×10^{-3}
	ENG ENG	1 ÷ 200 5000×10^{-6}
	Shift ←ENG	1 ÷ 200 5×10^{-3}

EX #37 LINE MODE:

Shift

SET-UP

2

Example	Key in operation	Display
$\frac{2}{3} + 2 = \frac{8}{3} = 2.666666667$	 2  3  2  F-D	2_3+2 2_3 2.666666667

MATHEMATICS MODE:

Shift

SET-UP

1

Example	Key in operation	Display
$\frac{2}{3} + 2 = \frac{8}{3} = 2.666666667$	 2  3  + 2  F-D	$\frac{2}{3} + 2$ $\frac{8}{3}$ 2.666666667
$\tan 30 = \frac{\sqrt{3}}{3}$ $= 0.5773502692$	tan 3 0 =	tan(30) 
	F-D	tan(30) 0.5773502692
$\pi \div 8 = \frac{1}{8}\pi$ $= 0.3926990817$	Shift π ÷ 8 =	$\pi \div 8$ $\frac{1}{8}\pi$
	F-D	$\pi \div 8$ 0.3926990817

EX #38 MATHEMATICS MODE:

Shift

SET-UP

1

Example	Key in operation	Display
$3+4i =$ $5\angle 53.13010235$	 3 + 4  Apps 1 =	$3+4i \blacktriangleright r\angle\theta$ $5\angle 53.13010235$
$\sqrt{2} < 45 = 1+i$	√ 2   4 5 Apps 2 =	$\sqrt{2} \angle 45 \Rightarrow a+bi$ $1+i$

EX #39**LINE MODE:** Shift SET-UP 2

Example	Key in operation	Display
Absolute value (r) and argument (θ) if complex number is $6+8i$	 Abs 6 + 8 i) = () DEL Apps 3 =	Abs (6+8 <i>i</i>) 10 Arg (6+8 <i>i</i>) 53.13010235

EX #40**LINE MODE:** Shift SET-UP 2

Example	Key in operation	Display
$3+4i$ is $3-4i$	 Apps 4 3 + 4 i) = () DEL Apps 3 =	Conjg (3+4 <i>i</i>) 3 - 4 <i>i</i>

EX #41**MATHEMATICS MODE:**

Shift SET-UP 1

Example	Key in operation	Display
Real and Imaginary values of a complex number is $23\angle 54$	 Apps 5 2 3 L 5 4) = () DEL Apps 6 =	Real(23∠54) 13.5190608 Imag(23∠54) 18.60739087

EX #42**MATHEMATICS MODE:**

Shift SET-UP 1

Example	Key in operation	Display
10101011+1100– 1001x101÷10 =10100001 (in Binary Mode)		10101011+1100– BIN 1010 0001
645+321–23x7÷2 =1064 (in Octal Mode)		645+321–23x7÷2 OCT 00000001064
(77A6C+D9)xB+F =57C87 (in Hexadecimal Mode)		(77A6C+D9)xB+F HEX 00057C87

EX #43**MATHEMATICS MODE:**

Shift SET-UP 1

Example	Key in operation	Display
12345+101=12446		12345+101 DEC 12446
		12345+101 HEX 000309E
		12345+101 BIN ◀BIK 1/2 1001 1110
		12345+101 OCT 00000030236

EX #44**MATHEMATICS MODE:**

Shift SET-UP 1

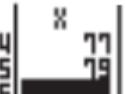
Example	Key in operation	Display
789ABC Xnor 147258		789ABCxnor147258 HEX FF93171B
Ans or 789ABC		Ansor789ABC HEX FFFFB9FBF
Neg 789ABC		Neg(789ABC HEX FF876544

EX #45

LINE MODE: **2**

Shift **SET-UP**

2

Key in operation	Display
MODE 3	1:SD 2:Lin 3:Quad 4:Log 5: ϵ EXP 6:ab EXP 7:Pwr 8:Inv
1 (SD)	
7 5 = 8 5 = 9 0 = 7 7 = 7 9 =	
CA Apps 4 1 =	Σx^2 33120
CA Apps 4 2 =	Σx 406
CA Apps 5 1 =	n 5
CA Apps 5 2 =	\bar{x} 81.2
CA Apps 5 3 =	$x \bar{n}$ σ 5.528109984
CA Apps 5 4 =	$x \bar{n-1}$ σ 6.180614856

EX #46**LINE MODE:** **2**

Key in operation	Display
3 MODE 3	$\begin{array}{ll} 1:\text{SD} & 2:\text{Lin} \\ 3:\text{Quad} & 4:\text{Log} \\ 5:\text{e EXP} & 6:\text{ab EXP} \\ 7:\text{Pwr} & 8:\text{Inv} \end{array}$
3 (Quad)	
	$30\hat{y}$ 48.69615715
	$50\hat{x}_1$ 31.30538226
	$50\hat{x}_2$ -167.1096731

EX #47**LINE MODE:** **2**

Key in operation	Display
3 1 MODE 3 1	
	$26\blacktriangleright t$ -0.6236095645
	P(Ans) 0.26644

EX #48**MATHEMATICS MODE:** Shift SET-UP 1

Key in operation 	Display 12345 12345
MODE 5 2 (3 unknowns)	
$\begin{array}{cccccc} 2 & = & 4 & = & (-) & 4 \\ 2 & 0 & = & & & \end{array}$	
$\begin{array}{cccccc} 2 & = & (-) & 2 & = & 4 \\ 8 & = & & & & \end{array}$	
$\begin{array}{cccccc} 5 & = & (-) & 2 & = & (-) \\ = & 2 & 0 & = & & \end{array}$	
$\begin{array}{c} = \\ = \end{array}$	$x = \frac{11}{2}$
$\begin{array}{c} = \\ = \end{array}$	$y = 3$
$\begin{array}{c} = \\ = \end{array}$	$z = \frac{3}{4}$

EX #49**MATHEMATICS MODE:** Shift SET-UP 1

Key in operation	Display
	12345 12345
MODE 5 (Cubic equation) 5 = 2 = (−) 2 = 1 =	a b c d 1 b c -2 d 1 1
=	X ₁ = -1
=	X ₂ = $\frac{3}{10} + 0.331662479i$
=	X ₃ = $\frac{3}{10} - 0.331662479i$

EX #50**LINE MODE:** Shift SET-UP 2

Key in Operation	Display
	12345 12345
Alpha X Alpha = 1 ÷ 3 → Shift π Alpha B X ² Alpha C	X = $\frac{1}{3} \pi B^2 C$
Shift Solve	B? 0
5 =	C? 0
2 0 =	Solve for X Initial value → 0
=	X = $\frac{1}{3} \pi B^2 C$ X = Solution → 523.5987756 Precision of solution → L-R = 0

EX #51 LINE MODE:

Shift SET-UP 2

Key in operation	Display
	12345 12345
MODE 1 (COMP MODE)	0
Alpha Y Alpha = 5 Alpha X x ² - 2 Alpha X + 1	Y=5X ² -X+1 0
CALC 5 =	Y=5X ² -X+1 116
CALC 7 =	Y=5X ² -X+1 232

EX #52 LINE MODE:

Shift SET-UP 2

Key in operation	Display
	12345 12345
MODE 1 (COMP MODE)	0
Shift d/dx sin 3 Alpha x + 3 0) Shift , 1 0 Shift , 1 EXP (-) 8) =	d/dx(sin(3X+30))> 0.02617993878

EX #53 LINE MODE:

Shift SET-UP 2

Key in operation	Display
	12345 12345
MODE 1	0
f _x 5 Alpha x x ⁴) + 3 Alpha x x ² + 2 Alpha x + 1 Shift , 2 Shift , 3 Shift , 4) =	$\int (5X^4 + 3X^2 + 2X) dx$ 236

EX #54 LINE MODE:

Shift SET-UP 2

Key in operation	Display
 MODE 7 1 ⌄ 2	MatA : 3×3 [1 2 3] [4 5 6] [7 8 9]
1 = 2 = 3 = 4 = 5 = 6 = 7 = 8 = 9 =	MatA : 3×3 [1 2 3] [4 5 6] [7 8 9]
CA Apps 1 2 ⌄ 2	MatB : 3×3 [1 2 3] [4 5 6] [7 8 9]
9 = 8 = 7 = 6 = 5 = 4 = 3 = 2 = 1 =	MatB : 3×3 [9 8 7] [6 5 4] [3 2 1]
CA Apps 3 ×	MatA×4 0
Apps 4 =	MatAns : 3×3 [120 24 18] [84 69 54] [138 114 90] [30]

EX #55 LINE MODE:

Shift SET-UP 2

Key in operation	Display
 Apps 1 3 ⌄ ⌄ 3	MatC : 2×2 [1 2] [3 4]
3 = (-) 2 = (-) 1 = 5 =	MatC : 2×2 [-3 -2] [-1 5]
CA Apps 5 × 2 =	MatAns : 2×2 [-2 -4] [-1 10]

EX #56**LINE MODE:** Shift SET-UP 2

Key in operation	Display
 CA Apps 1 1 ⚄ 2	$\text{MatA : } 3 \times 3$ $\begin{bmatrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 1 \end{bmatrix}$
1 0 = (-) 5 = 3 = (-) 4 = 9 = 2 = 1 = 7 = (-) 3 =	$\text{MatA : } 3 \times 3$ $\begin{bmatrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 1 \end{bmatrix}$
CA Apps ⚄ 1	Det(A) 0
Apps 3) =	Det(MatA) -471

EX #57**LINE MODE:** Shift SET-UP 2

Key in operation	Display
 CA Apps 1 2 ⚄ 3	$\text{MatB : } 3 \times 2$ $\begin{bmatrix} 1 & 0 \\ 0 & 1 \\ 0 & 0 \end{bmatrix}$
9 = 5 = 6 = 2 = 8 = 4 =	$\text{MatB : } 3 \times 2$ $\begin{bmatrix} 9 & 5 \\ 8 & 4 \\ 0 & 0 \end{bmatrix}$
CA Apps ⚄ 2	Trn(B) 0
Apps 4) =	$\text{MatAns : } 2 \times 3$ $\begin{bmatrix} 9 & 5 & 0 \\ 8 & 4 & 0 \end{bmatrix}$

EX #58 LINE MODE:

Shift SET-UP 2

Key in operation	Display
 CA Apps  3	Iden  0
2  =	MatAns: 2x2 $\begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix}$ 1

EX #59 LINE MODE:

Shift SET-UP 2

Key in operation	Display
 CA Apps 1 1   3	MatA: 2x2 $\begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix}$ 0
2  3  4  = 5 =	MatA: 2x2 $\begin{bmatrix} 2 & 3 \\ 4 & 5 \end{bmatrix}$ 5
CA Apps  4	Adj  0
Apps 3  =	MatAns: 2x2 $\begin{bmatrix} 5 & -3 \\ -4 & 2 \end{bmatrix}$ 5

EX #60**LINE MODE:** Shift SET-UP 2

Key in operation	Display
	12345 12345
CA Apps 1 3 ⌄ ⌄ 3	MatC : 2x2 [0 0] 0
8 = 2 = 3 = 6 =	MatC : 2x2 [0 2] 6
CA Apps ⌄ 5	InvC 0
Apps 5) =	MatAns : 2x2 [0.0476 -0.047] [-0.0714 0.1904] 1.7

EX #61**LINE MODE:** Shift SET-UP 2

Key in operation	Display
	12345 12345
CA Abs	AbsC 0
Apps 7) =	MatAns : 2x2 [0.0476 0.0476] [0.0714 0.1904] 1.7

EX #62**LINE MODE:** Shift SET-UP 2

Key in operation	Display
	12345 12345
MODE 8 1 2	VctA:2 [8] 0]
8 = 5 =	VctA:2 [8] -F]
5	
CA Apps 1 2 2	VctB:2 [1] 0]
0	
7 = 3 =	VctB:2 [7] -F]
3	
CA Apps 3 -	VctA-1 0
Apps 4 =	VctAns:2 [4] 2]
1	

EX #63**LINE MODE:** Shift SET-UP 2

Key in operation	Display
	12345 12345
CA Apps 1 3 1	VctC:3 [1] 0 0]
0	
4 = 5 = (-) 6 =	VctC:3 [4] 5 -F]
-6	
CA Apps 5 X 5 =	VctAns:3 [5] 25 -30]
20	

EX #64**LINE MODE:** Shift SET-UP 2

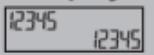
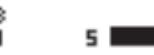
Key in operation	Display
	12345 12345
CA Apps 1 1 1	VctA:3 [] 0 0] 0
4 = 5 = (-) 6 =	VctA:3 [4 5 [-F] -6
CA Apps 1 2 1	VctB:3 [] 0 0] 0
(-) 7 = 8 = 9 =	VctB:3 [-1 8 [-F] 9
CA Apps 3	VctA:1 0
Apps 8	VctA-1 0
Apps 4 =	VctA-VctB -42

EX #65**LINE MODE:** Shift SET-UP 2

Key in operation	Display
	12345 12345
CA Apps 1 1 1	VctA:3 [] 0 0] 0
4 = 5 = (-) 6 =	VctA:3 [4 5 [-F] -6
CA Apps 1 2 1	VctB:3 [] 0 0] 0
(-) 7 = 8 = 9 =	VctB:3 [-1 8 [-F] 9
CA Apps 3 X	VctA*1 0
Apps 4 =	VctANS:3 [FF 6 61] 93

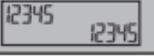
EX #66 LINE MODE:

Shift SET-UP 2

Key in operation	Display
 CA Apps 1 3 1	VctA:3  0 0 0
4 = 5 = (-) 6 =	VctA:3  -6
CA Abs Apps 5) =	Abs(VctC) 8.774964387

EX #67 LINE MODE:

Shift SET-UP 2

Key in operation	Display
 CA Apps 1 1 1	VctA:3  0 0 0
(-) 1 = 0 = 1 =	VctA:3  1
CA Apps 1 2 1	VctB:3  0 0 0
1 = 2 = 0 =	VctB:3  0
CA Apps 3 Apps 8 Apps 4 =	VctA-VctB -1
÷ (Apps Abs Apps 3)) × Abs Apps 4) =	Ans÷(Abs(VctA))× -0.316227766
Shift cos ⁻¹ Apps Ans) = Apps 3 X Apps 4 =	VctAns:3  -2
Apps 7) = Apps 7 ÷ Ans =	VctAns:3 [0.3333 -0.6666] -2×3

EX #68**LINE MODE:** Shift SET-UP 2

Key in operation	Display
	
MODE 6 	$f(x) =$ 
	 1
	 5

CANON ELECTRONIC BUSINESS MACHINES (H.K.) CO., LTD.
17/F., Tower one, Ever Gain Plaza, 82-100 Container Port Road,
Kwai Chung, New Territories, Hong Kong

CANON EUROPA N.V.

Bovenkerkerweg 59, 1185 XB Amstelveen, The Netherlands

CANON COMMUNICATION & IMAGE FRANCE S.A.

12, rue de l'Industrie 92400, Courbevoie Cedex Paris, France

SLOVENIJA

Canon Adria d.o.o., Dunajska cesta 128a, p.p. 581, 1521 Ljubljana

Tel.: 061/53 08 710 Fax: 061/53 08 745

MAGYARORSZÁG

Canon Hungária Kft, 1031 Budapest, Graphisoft Park 1. (Záhony utca 7.)

Telefon: (+361) 2375900 Fax: (+361) 2375901

Internet: www.canon.hu

POLSKI

Canon Polska Sp. z o.o., ul. Racławicka 146, 02-117 Warszawa

tel. (+48 22) 572 30 00 fax: (+48 22) 668 61 15

ČESKÁ VERZE

Canon CZ s.r.o., nám. Na Santinec 2440, 160 00 Praha 6, Česká republika

Tel. +420 225 280 111 Fax. +420 225 280 311

BULGARIAN

CEE CANON EAST EUROPE - Sofia Information Office

e-mail: infooffice@canon.bg

www.canon.bg

ROMANIAN**CANON EAST EUROPE - BUCHAREST OFFICE**

World Trade Center, entrance D, unit 1. 15, P a. Montreal nr. 10,
sector 1 Bucharest, Romania

phone number 40-21-224.38.54

fax number 40-21-224.42.36

e-mail: office@canon.ro

CANON EURASIA GÖRÜNTÜLEME VE OFİS SİSTEMLERİ A.Ş.

Değirmen Sokak Nida Kule İş Merkezi No:18/10 K:1

Kozyatağı 34742 Kadıköy İstanbul, Türkiye

Tel: +90216 571 68 00

Faks: +90216 571 68 99

в Киеве

Украина, 01030, Киев, ул. Богдана Хмельницкого 33/34

Тел. +380 (44) 490 2595

факс +380 (44) 490 2598

Эл. адрес: post@canon.kiev.ua

CANON POLSKA SPOL s.r.o.

Ul, Moldawska 9, 02-117 Warszawa, Poland

CANON SLOVAKIA s.r.o.

Sancova 4, 811 04 Bratislava, Slovak Republic

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Квай Чунг, Нью Территори, Гонконг

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