

Safety Precautions

Be sure to read the following safety precautions before using this calculator. Keep this manual handy for later reference.



This symbol is used to indicate information that can result in personal injury or material damage if ignored.

Batteries

- After removing the battery from the calculator, put it in a safe place where it will not get into the hands of
- small children and accidentally swallowed.

 Keep batteries out of the reach of small children. If accidentally swallowed, consult with a physician im-
- Never charge batteries, try to take batteries apart, or allow batteries to become shorted. Never expose batteries to direct heat or dispose of them by incineration
- Misuse of batteries can cause them to leak and damage nearby items, and can create the risk of fire and
- Always make sure that the battery's positive ① and negative ⊖ ends are facing correctly when you load it into the calculator.
- Remove the battery if you do not plan to use the calculator for a long time
- Use only the type of battery specified for this calculator in this manual

Disposing of the Calculator

- Never dispose of the calculator by burning it. Doing so can cause certain components to suddenly burst, creating the risk of fire and personal injury.
- The displays and illustrations (such as key markings) shown in this User's Guide are for illustrative purposes only, and may differ somewhat from the actual items they represent.

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. The contents of this manual are subject to change with-

Handling Precautions

- Be sure to press the OH key before using the calculator for the first time.
- Even if the calculator is operating normally, replace the battery at least once every three years for the.

A dead battery can leak, causing damage to and malfunction of the calculator. Never leave a dead battery in the calculator.

- The battery that comes with this unit discharges slightly during shipment and storage. Because of this, it may require replacement sooner than the normal expected battery life.
- Low battery power can cause memory contents to become corrupted or lost completely. Always keep written records of all important data.
- · Avoid use and storage in areas subjected to temperature extremes.

Very low temperatures can cause slow display response, total failure of the display, and shortening of battery life. Also avoid leaving the calculator in direct sunlight, near a window, near a heater or anywhere else it might be exposed to very high temperatures. Heat can cause discoloration or deformation of the calculator's case, and damage to internal circuitry.

· Avoid use and storage in areas subjected to large amounts of humidity and dust.

Take care never to leave the calculator where it might be splashed by water or exposed to large amounts of humidity or dust. Such conditions can damage internal

- · Never drop the calculator or otherwise subject it to strong impact.
- Never twist or bend the calculator.

Avoid carrying the calculator in the pocket of your trousers or other tight-fitting clothing where it might be subjected to twisting or bending.

. Never try to take the calculator apart.

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- · Never press the keys of the calculator with a ballpoint pen or other pointed object.
- · Use a soft, dry cloth to clean the exterior of the calculator.

If the calculator becomes very dirty, wipe it off with a cloth moistened in a weak solution of water and a mild neutral household detergent. Wring out all excess moisture before wiping the calculator. Never use thinner, benzene or other volatile agents to clean the calculator. Doing so can remove printed markings and can damage the case.

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■Common and Natural Logarithms/

Two-line Display



The two-line display makes it possible to view both the calculation formula and its result at

- The upper line shows the calculation formula.
- . The lower line shows the result.

A separator symbol is displayed every three digits when the integer part of the mantissa has more than three dig-

Before getting started...

Modes

Before starting a calculation, you must first enter the correct mode as indicated in the table below.

To perform this type of calculation:	Perform this key operation:	To enter this mode:
Basic arithmetic calculations	MODE 1	COMP
Standard deviation	MODE 2	SD
Regression calculations	MODE 3	REG

- Pressing the more key more than once displays additional setup screens. Setup screens are described in the sections of this manual where they are actually used to change the calculator setup.
- In this manual, the name of the mode you need to enter in order to perform the calculations being described is indicated in the main title of each section.

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Example:

Note!

• To return the calculation mode and setup to the initial defaults shown below, press SHIFT CLR 2 (Mode)

Calculation Mode: COMP Angle Unit: Exponential Display Format: Norm 1 Fraction Display Format: ab/c Dot Decimal Point Character:

• Mode indicators appear in the upper part of the display. Be sure to check the current calculation mode (SD_REG) COMP) and angle unit setting (Deg. Rad. Gra) before beginning a calculation.

■ Input Capacity

- The memory area used for calculation input can hold 79 "steps." One step is taken up each time vou press a number key or arithmetic operator key (+ . = . × . +). A seri or we key operation does not take up a step, so inputting we V, for example, takes up only one step.
- You can input up to 79 steps for a single calculation. Whenever you input the 73rd step of any calculation, the cursor changes from "_" to "■" to let you know memory is running low. If you need to input more than 79 steps, you should divide your calculation into two or more parts.
- Pressing the Ans key recalls the last result obtained, which you can use in a subsequent calculation. See "Answer Memory" for more information about using the Ans key

■ Making Corrections During Input

- Use and ▶ to move the cursor to the location you
- Press to delete the number or function at the current cursor position.

 • Press [IIII] to change to an insert cursor []. Inputting
- something while the insert cursor is on the display inserts the input at the insert cursor position.
- Pressing [INS], or returns to the normal cursor from the insert cursor.

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■ Replay Function

- Every time you perform a calculation, the replay function stores the calculation formula and its result in replay memory. Pressing the A key displays the formula and result of the calculation you last performed. Pressing again back steps sequentially (new-to-old) through past calculations.
- culation is on the display changes to the editing screen.

 • Pressing the ◀ or ▶ key immediately after you finish
- a calculation displays the editing screen for that calcula-
- Pressing does not clear replay memory, so you can recall the last calculation even after you press AC.
- Replay memory capacity is 128 bytes for storage of both expressions and results
- Replay memory is cleared by any of the following actions.

When you press the N key

When you initialize modes and settings by pressing

©R 2 (or 3)

When you change from one calculation mode to another When you turn off the calculator.

■ Error Locator

• Pressing
or
after an error occurs displays the calculation with the cursor positioned at the location where the error occurred.

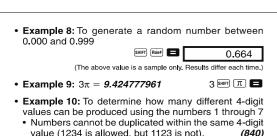
■ Multi-statements

A multi-statement is an expression that is made up of two or more smaller expressions, which are joined using a colon

• Example: To add 2 + 3 and then multiply the result by 4



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7 SHIFT [nPr] 4 **=** • Example 11: To determine how many different 4-member groups can be organized in a group of 10 individuals

10 nCr 4

■ Angle Unit Conversion

• Press with to display the following menu.

D R 1 2 3

• Pressing 1, 2, or 3 converts the displayed value to the corresponding angle unit.

• Example: To convert 4.25 radians to degrees

MODE 1 (Deg) 4.25 SHIFT (R) (R) 4.25r 243.5070629

\blacksquare Coordinate Conversion (Pol (x, y), $Rec(r, \theta)$

- · Calculation results are automatically assigned to variables E and F.
- Example 1: To convert polar coordinates (r=2, $\theta=60^{\circ}$) to rectangular coordinates (x, y) (Deg)

x = 1SHIFT Rec(2 , 60) = y = 1.732050808RCL F

• Press $\mathbb{R}^{\mathbb{R}}$ \mathbb{E} to display the value of x, or $\mathbb{R}^{\mathbb{R}}$ \mathbb{F} to display the value of v.

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• Example 2: To convert rectangular coordinates $(1, \sqrt{3})$ to polar coordinates (r,θ) (Rad) Pol() 1 → ▼ 3 → ■ r = 2 $\theta = 1.047197551$ RCL F play the value of θ . Example: To calculate σ_{n-1}, σ_n, x̄, n, Σx, and Σx² for

■ Engineering Notation Calculations

• Example 1: To convert 56,088 meters to kilometers 56088 ENG \rightarrow 56.088 $\times 10^3$

• Example 2: To convert 0.08125 grams to milligrams

 \rightarrow **81.25** \times 10⁻³ 0.08125 ENG (ma)

Statistical **Calculations**

⊂REG⊃ _SD_

Standard Deviation

Use the Mode key to enter the SD Mode when you want to perform statistical calculations using standard deviation. MODE 2 SD

- In the SD Mode and REG Mode, the M+ key operates as the DT key.
- Always start data input with self (LR 1 (Scl) = to clear statistical memory.
- · Input data using the key sequence shown below. <*x*-data> **D**T
- Input data is used to calculate values for n, Σx, Σx², x̄, σ_n and σ_{n-1} , which you can recall using the key operations noted nearby.

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• Example: Atmospheric Pressure vs. Temperature

To recall this type of value:	Perform this key operation:
$\Sigma \chi^2$	SHIFT S-SUM 1
$\sum x$	SHIFT S-SUM 2
n	SHIFT S-SUM 3
\bar{x}	SHIFT S-VAR 1
σ_n	SHIFT S-VAR 2
⊙ n-1	SHIFT S-VAR 3

the following data: 55, 54, 51, 55, 53, 53, 54, 52

In the SD Mode: SHIFT CLR 1 (Scl)

(Stat clear) 55 DT Each time you press DT to register your input, the number of data input up to that point is indicated on the display (n value)

54 DT 51 DT 55 DT

SHIFT S-SUM 1

53 DT DT 54 DT 52 DT SHIFT S-VAR 3 Sample Standard Deviation $(\sigma_{n-1}) = 1.407885953$ SHIFT S-VAR 2 Population Standard Deviation (G_n) = 1.316956719 SHIFT S-VAR 1 Arithmetic Mean $(\bar{x}) = 53.375$ SHIFT S-SUM 3 Number of Data (n) = 8SHIFT S-SUM 2 Sum of Values $(\Sigma x) = 427$

Sum of Squares of Values (Σx^2) = **22805 Data Input Precautions**

- DT DT inputs the same data twice.
- You can also input multiple entries of the same data using : To input the data 110 ten times, for example, press 110 SHIFT : 10 DT.
- You can perform the above key operations in any order. and not necessarily that shown above.
- · While inputting data or after inputting data is complete, you can use the ▲ and ▼ keys to scroll through data you have input. If you input multiple entries of the same data using shift to specify the data frequency (number of data items) as described above, scrolling through data shows both the data item and a separate screen for the data frequency (Freq).

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 You can then edit the displayed data, if you want. Input the new value and then press the key to replace the old value with the new one. This also means that if you want to perform some other operation (calculation, recall of statistical calculation results, etc.), you should always press the key first to exit data display.

• Pressing the DT key instead of after changing a value on the display registers the value you input as a new data item, and leaves the old value as it is

 You can delete a data value displayed using ▲ and ▼ by pressing SHIFT CL. Deleting a data value causes all values following it to be shifted up.

• Data values you register are normally stored in calculator memory. The message "Data Full" appears and you will not be able to input any more data if there is no memory left for data storage. If this happens, press the key to display the screen shown below.

EditOFF ESC

Press 2 to exit data input without registering the value you just input.

Press 1 if you want to register the value you just input. without saving it in memory. If you do this, however, you will not be able to display or edit any of the data you have input.

- To delete data you have just input, press [SHIFT] CL.
- · After inputting statistical data in the SD Mode or REG Mode, you will be unable to display or edit individual data items any longer after perform either the following operations.

Changing to another mode

Changing the regression type (Lin, Log, Exp, Pwr, Inv,

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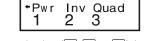
Regression Calculations

Use the More key to enter the REG Mode when you want to perform statistical calculations using regression.

⊂REG⊃

- In the SD Mode and REG Mode, the M+ key operates as the **DT** key.
- Entering the REG Mode displays screens like the ones shown below.





• Press the number key (1,2, or3) that corresponds to the type of regression you want to use.

1 (Lin): Linear regression 2 (Log): Logarithmic regression 3 (Exp): Exponential regression Power regression ▶ 2 (Inv): Inverse regression ▶ 3 (Quad): Quadratic regression

- Always start data input with SHIFT CLR 1 (ScI) = to clear statistical memory.
- · Input data using the key sequence shown below. <x-data> • <y-data> • T
- The values produced by a regression calculation depend on the values input, and results can be recalled using the key operations shown in the table below.

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To recall this type of value: Perform this key operation: SHIFT S-SUM 1 $\sum x$ SHIFT S-SUM 2 SHIFT S-SUM 3 SHIFT S-SUM 1 Σy^2 SHIFT S-SUM 2 Σy SHIFT S-SUM 3 $\sum xv$ SHIFT S-VAR 1 SHIFT S-VAR 2 $x\sigma_n$ SHIFT S-VAR 3 $x\sigma_{n-1}$ SHIFT S-VAR 1 SHIFT S-VAR 2 $y\sigma_n$ SHIFT S-VAR 3 VO_{n-1} Regression coefficient A SHIFT S-VAR 1 Regression coefficient B SHIFT S-VAR 2 Regression calculation other than quadratic regression SHIFT S-VAR 3 Correlation coefficient r SHIFT S-VAR 1

 The following table shows the key operations you should use to recall results in the case of quadratic regression.

To recall this type of value:	Perform this key operation:
Σx^3	SHIFT S-SUM 1
$\sum x^2 y$	SHIFT S-SUM 2
$\sum x^4$	SHIFT S-SUM 3
Regression coefficient C	SHIFT S-VAR 3
$\hat{\mathcal{X}}_1$	SHIFT S-VAR 1
$\hat{\chi}_2$	SHIFT S-VAR 2
ŷ	SHIFT S-VAR

• The values in the above tables can be used inside of expressions the same way you use variables.

Linear Regression

• The regression formula for linear regression is: y = A + Bx.

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Temperature Atmospheric Perform linear regression to determine the regression formula 10°C | 1003 hPa terms and correlation coefficient 15°C 1005 hPa for the data nearby. Next, use 20°C 1010 hPa the regression formula to esti-25°C 1011 hPa mate atmospheric pressure at 30°C 1014 hPa _5°C and temperature at 1000 hPa. Finally, calculate the coefficient of determination (r^2) and sample covariance $\sum xy - n \cdot \bar{x} \cdot \bar{y}$ n-1In the REG Mode: 1 (Lin) SHIFT CLR 1 (ScI) (Stat clear) 10 • 1003 DT Each time you press or to register your input the number of data input up to that point is indicated on the display (n value) 15 7 1005 DT 20 • 1010 DT 25 • 1011 DT 30 • 1014 DT SHIFT S-VAR 1 Regression Coefficient A = 997.4 Regression Coefficient B = 0.56 Correlation Coefficient r = 0.982607368Atmospheric Pressure at -5°C = 994.6 Temperature at 1000 hPa = 4.642857143 1000 SHIFT S-VAR | | | | | | | | | | | | | | | | | Coefficient of Determination = 0.965517241 (SHIFT S-SUM 3 Sample Covariance = 35 SHIFT S-SUM 3 X SHIFT S-VAR 1 X
SHIFT S-VAR 1) ; (SHIFT S-SUM 3 - 1) =

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Logarithmic, Exponential, Power, and Inverse Regression

· Use the same key operations as linear regression to recall results for these types of regression.

• The following shows the regression formulas for each type of regression.

Logarithmic Regression	$y = A + B \cdot \ln x$
Exponential Regression	$y = A \cdot e^{B \cdot x} (\ln y = \ln A + Bx)$
Power Regression	$y = A \cdot x^B (\ln y = \ln A + B \ln x)$
Inverse Regression	$y = A + B \cdot 1/x$

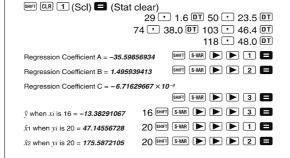
Quadratic Regression

• The regression formula for quadratic regression is: $y = A + Bx + Cx^2$.

• Example:

		_
x_i	Уi	Perform quadratic regression to de-
29	1.6	termine the regression formula terms for the data nearby. Next, use the
50	23.5	regression formula to estimate the
74	38.0	values for \hat{y} (estimated value of y) for
103	46.4	$xi = 16$ and \hat{x} (estimated value of x)
118	48.0	for $y_i = 20$.

In the REG Mode: **▶** 3 (Quad)



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Data Input Precautions

- DT DT inputs the same data twice. You can also input multiple entries of the same data using SHIFT . To input the data "20 and 30" five times,
- for example, press 20 30 SHIFT ; 5 DT. • The above results can be obtained in any order, and not necessarily that shown above.
- Precautions when editing data input for standard deviation also apply for regression calculations.
- Do not use variables A through F, X, or Y to store data when performing statistical calculations. These variables are used for statistical calculation temporary memory, so any data you may have assigned to them may be replaced by other values during statistical calculations
- Entering the REG Mode and selecting a regression type (Lin, Log, Exp, Pwr, Inv, Quad) clear variables A through F, X, and Y. Changing from one regression type to another inside the REG Mode also clears these variables.

Technical Information

■ When you have a problem.....

If calculation results are not what you expect or if an error occurs, perform the following steps

- 1. Press [CLR] 2 (Mode) (Mode) to initialize all modes and
- 2. Check the formula you are working with to confirm it is correct. 3. Enter the correct mode and try performing the calcula-
- tion again If the above steps do not correct the problem, press the

[0] key. The calculator performs a self-check operation and deletes all data stored in memory if any abnormality is detected. Make sure you always keep written copies of all important data

■ Error Messages

The calculator is locked up while an error message is on the display. Press to clear the error, or press or to display the calculation and correct the problem. See "Error Locator" for details.

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Math ERROR

Causes

· Calculation result is outside the allowable calculation • An attempt to perform a function calculation using a

- value that exceeds the allowable input range.
- An attempt to perform an illogical operation (division by zero, etc.)

Action

• Check your input values and make sure they are all within the allowable ranges. Pay special attention to values in any memory areas you are using.

Stack ERROR

Cause

• The capacity of the numeric stack or operator stack is

• Simplify the calculation. The numeric stack has 10 levels and the operator stack has 24 levels.

Divide your calculation into two or more separate parts.

Syntax ERROR

Cause

· An attempt to perform an illegal mathematical opera-

Action

sor located at the location of the error and make re-

Arg ERROR • Cause

• Improper use of an argument

Action

the error and make required corrections.

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■ Order of Operations

Calculations are performed in the following order of prec-

- ① Coordinate transformation: Pol (x, y), Rec (r, θ)
- 2 Type A functions:

With these functions, the value is entered and then the function key is pressed.

 $x^3, x^2, x^{-1}, x!, \circ, "$ $\hat{x}, \hat{x}_1, \hat{x}_2, \hat{y}$

Angle unit conversions (DRG►)

- (3) Powers and roots: $^{\land}(x^{y})$, $^{x}\sqrt{}$
- \bigcirc Abbreviated multiplication format in front of π , e (natural logarithm base), memory name, or variable name: 2π , 3e, 5A, πA , etc.
- Type B functions:

With these functions, the function key is pressed and then the value is entered.

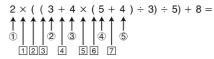
- $\sqrt{}$, $\sqrt[3]{}$, log, ln, e^x , 10^x , sin, cos, tan, sin⁻¹, cos⁻¹, tan⁻¹, sinh, cosh, tanh, sinh⁻¹, cosh⁻¹, tanh⁻¹, (-)
- 7 Abbreviated multiplication format in front of Type B functions: $2\sqrt{3}$, Alog2, etc.
- (8) Permutation and combination: nPr, nCr
- Operations of the same precedence are performed from right to left. $e^x \ln \sqrt{120} \rightarrow e^x \{\ln(\sqrt{120})\}$
- Other operations are performed from left to right.
- Operations enclosed in parentheses are performed first.
- When a calculation contains an argument that is a negative number, the negative number must be enclosed within parentheses. The negative sign (-) is treated as a Type B function, so particular care is required when the calculation includes a high-priority Type A function, or power or root operations.

Example: $(-2)^4 = 16$ $-2^4 = -16$

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■ Stacks

This calculator uses memory areas, called "stacks," to temporarily store values (numeric stack) and commands (command stack) according to their precedence during calculations. The numeric stack has 10 levels and the command stack has 24 levels. A stack error (Stack ERROR) occurs whenever you try to perform a calculation that is so complex that the capacity of a stack is exceeded.



Numeric Stack

Command Stack 1 2 1 ×

U	2	
2	3	
3	4	
4	5	
(5)	4	
:		

2 (3 (4 + 5 × 6 (7 +

· Calculations are performed in sequence according to "Order of Operations," Commands and values are deleted from the stack as the calculation is performed.

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■ Input Ranges

Internal digits: 12

Accuracy*: As a rule, accuracy is ±1 at the 10th digit.

Functions	Input Range			
$\sin x$	DEG	$0 \le x \le 4.499999999 \times 10^{10}$		
	RAD	0≦ x ≦785398163.3		
	GRA	$0 \le x \le 4.99999999 \times 10^{10}$		
cosx	DEG	$0 \le x \le 4.500000008 \times 10^{10}$		
	RAD	0≦ <i>x</i> ≦785398164 . 9		
	GRA	$0 \le x \le 5.000000009 \times 10^{10}$		
tanx	DEG	Same as $\sin x$, except when $ x = (2n-1) \times 90$.		
	RAD	Same as $\sin x$, except when $ x = (2n-1) \times \pi/2$		
	GRA	Same as $\sin x$, except when $ x = (2n-1) \times 100$		
sin ⁻¹ x	0≦	r ≦1		
tan-1x	0≦	x ≤9.99999999×10 ⁹⁹		
sinhx	0< 1	0≦ x ≦230.2585092		
coshx	U⊒ P			
$\sinh^{-1}x$	$0 \le x \le 4.999999999 \times 10^{99}$			
$\cosh^{-1} x$	1≦ <i>x</i>	$1 \le x \le 4.999999999 \times 10^{99}$		
tanhx	0≦	$0 \le x \le 9.999999999 \times 10^{99}$		
tanh-1x	$0 \le x \le 9.999999999 \times 10^{-1}$			
logx/lnx	0< x	0< x ≤9.999999999×10 ⁹⁹		
10 ^x	$-9.999999999\times10^{99} \le x \le 99.99999999$			
e^{x}	$-9.999999999 \times 10^{99} \le x \le 230.2585092$			
\sqrt{x}	$0 \le x < 1 \times 10^{100}$			
χ^2	$ x < 1 \times 10^{50}$			
1/ <i>x</i>	$ x < 1 \times 10^{100}$; $x \neq 0$			
³ √ <i>x</i>	$ x < 1 \times 10^{100}$			
x!		\leq 69 (x is an integer)		
•	$0 \le n < 1 \times 10^{10}, 0 \le r \le n \ (n, r \text{ are integers})$ $1 \le \{n!/(n-r)!\} < 1 \times 10^{100}$			

Functions	Input Range
nCr	$0 \le n < 1 \times 10^{10}$, $0 \le r \le n$ (n, r are integers)
nor	$1 \le [n!/\{r!(n-r)!\}] < 1 \times 10^{100}$
Pol(x, y)	$ x , y \le 9.9999999999 \times 10^{49}$
(, , , ,	$(x^2 + y^2) \le 9.9999999999 \times 10^{99}$
$Rec(r, \theta)$	0≦ r ≦9.99999999×10 ⁹⁹
(., .,	θ: Same as sin <i>x</i>
	$ a , b, c < 1 \times 10^{100}$
0, 11	$0 \leq b, c$
	$ x < 1 \times 10^{100}$
01 11	Decimal ↔ Sexagesimal Conversions
	$0^{\circ}0^{\circ}0^{\circ} \le x \le 9999999^{\circ}59^{\circ}$
	$x>0: -1\times 10^{100} < y\log x < 100$
$^{\wedge}(x^{y})$	x=0: y>0 1
, ,	$x<0: y=n, \overline{2n+1}$ (n is an integer)
	However: $-1 \times 10^{100} < y \log x < 100$
	$y>0: x \neq 0,$
	$-1 \times 10^{100} < 1/x \log y < 100$
$x\sqrt{y}$	y=0: x>0
	$y < 0: x = 2n + 1, \frac{1}{n}$ ($n \neq 0$; n is an integer)
	However: $-1 \times 10^{100} < 1/x \log y < 100$
1	Total of integer, numerator, and denominator
a^{b}/c	must be 10 digits or less (including division
	marks).
0.0	$ x < 1 \times 10^{50}$ $x\sigma_n, y\sigma_n, \bar{x}, \bar{y} : n \neq 0$
SD (REG)	$ y < 1 \times 10^{50}$ $x\sigma_{n-1}, y\sigma_{n-1}, A, B, r$:
(0)	$ n < 1 \times 10^{100}$ $n \neq 0, 1$

* For a single calculation, calculation error is ±1 at the 10th digit. (In the case of exponential display, calculation error is ± 1 at the last significant digit.) Errors are cumulative in the case of consecutive calculations, which can also cause them to become large. (This is also true of internal consecutive calculations that are performed in the case of $(^{\land}(x^{\flat})$, $^{x}\sqrt{y}$, x!, $^{3}\sqrt{}$, ^{n}Pr , ^{n}Cr , etc.) In the vicinity of a function's singular point and point of inflection, errors are cumulative and may become large.

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Power Supply

Solar cell and a single LR44 Type button battery.

Replacing the Battery

Either of the following symptoms indicates battery power is low, and that the battery should be replaced.

 Display figures are dim and difficult to read in areas where there is little light available.

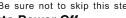
Screw

•

• Nothing appears on the display when you press the ON kev.

• To replace the battery

- 1 Remove the four screws that hold the back cover in place and then remove the back cover.
- 2 Remove the old battery.
- 3 Wipe off the sides of new battery with a dry, soft cloth. Load it into the unit with the positive
 side facing up (so you can see it).
- 4 Replace the back cover and secure it in place with the four screws.
- ⑤ Press on to turn power on. Be sure not to skip this step.



Auto Power Off

Calculator power automatically turns off if you do not perform any operation for about six minutes. When this happens, press (IN) to turn power back on.

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