

Basic TI Graphing Calculator Information

As well as these basic calculator guidelines, each ISS lab has tutors that are available to answer calculator questions in person. Also the ISS labs have videos and handouts on using the TI graphing calculators and each campus has TI-Graphlinks, CBLs, and CBRs for use in the labs.

- On - On will also interrupt graph/program/menu in progress by pressing.
- Off - 2nd On
- Cursor
 - Blinking ready for standard input
 - Insert is a blinking underscore line. In insert mode you can insert data anywhere
 - Alpha is a blinking A. In Alpha mode you can access the keys the same color as the alpha key
 - 2nd is a blinking up arrow. In 2nd mode you can access the keys the same color as the 2nd key
- Screen darkness varies 1-9 New batteries (screen 1-3) Older batteries (screen 7-9)
 - Darken screen - 2nd and hold up arrow, or once to move in one step increments
 - Lighten screen - 2nd and hold down arrow, or once to move in one step increments
- Entering Data from the Home Screen, Make sure to follow mathematical Order of Operations (PEMDAS), Input data the way it is written on the paper.
 - 5+ 11 Enter 16
 - 5 - 11 Enter 16
 - (3 + π)/2 Enter 3.070796327
(if you only want three decimal places: select Mode, Float 0123456789, choose 3, quit)
Enter 3.071
 - 2nd, Enter, back arrow, change plus to minus, enter
(this is the Entry command, can do repeatedly, scrolls back)
(3 + π)/2 Enter -.071
 - minus is subtraction -, negative sign (-)
-3-4 -7.000
- Mode:
 - Normal Sci Eng(10×10^{-3}) Selects type of units
 - Float 0123456789 Selects number of decimal places
 - Radian Degree Angle measurement, Trig.
 - Function Parametric Polar Sequence Selects type of graphing to be done
 - Connected Dot Selects graph line type
 - Sequential Simultaneous Draw graphs at the same time or separate
 - Fullscreen, Split Changes view to full screen or split
- Clear
 - From home screen 1st time clears a line of text
 2nd time clears entire screen
 - Quit 2nd, Quit get out of menu back to home screen
(if unsure use 2nd Quit , clear might erase something)
- Input 3 (-) 5 This is an error it should be 3 - 5 (subtraction not negative)
 - Error message choice of quit or goto
 - quit moves on to next line, goto highlights error
- Insert, 2nd, INS Changes cursor to _ highlight where you want to add a character, once you start typing insert is good until you move the cursor.
- Delete, DEL, use arrow keys to move to what you want to delete, highlight it and delete, it takes items from the right.
- Change answer to fraction = math 1: Frac, Ans>Fraction Enter = -3/2
- Ans takes answer from line before and uses it in the next problem
also: 5 + -3/2 = 5 + 2nd (-) = 3.5

Calculations	Example	Calculator Display	Answer
Addition	27+32	27+32	59
Subtraction (minus sign – above plus sign)	91–45	91–45	46
Negative numbers (negative sign (-) left of enter)	-2 -3+5	(-)-2 (-)-3+5	-2 2
Multiplication	18x63 5(12)	18*63 5(12)	1134 60
Division	105÷3	105/3	35
Fractions (use parentheses to enclose the entire numerator and denominator)	$\frac{9-4}{2 \times 5}$ $\frac{3}{2+6}$	(9-4)/(2*5) 3/(2+6)	.5 .375
Radicals (use parentheses to enclose everything under the radical)	$\sqrt{56+88}$	$\sqrt{(56+88)}$	12
Square (use the x ² key or the caret key, ^ (shift 6))	7 ² 11 ²	7 ² 11^2	49 121
Cube (use the math key and item 3 or the caret key, ^)	3 ³ 5 ³	3 ³ 5^3	27 125
Other Powers (use the caret key, ^)	2 ⁵ 4 ⁷	2^5 4^7	32 16384
Square Root (use 2 nd x ² key or a fractional exponent)	$\sqrt{64}$ $\sqrt{144}$	$\sqrt{(64)}$ 144^(1/2)	8 12
Cube Root (use the math key and item 4 or a fractional exponent)	$\sqrt[3]{64}$ $\sqrt[3]{125}$	$\sqrt[3]{(64)}$ 125^(1/3)	4 5
Other Roots (use the math key and item 5, but first enter root, or a fractional exponent)	$\sqrt[4]{4096}$ $\sqrt[5]{243}$	4 $\sqrt[4]{(4096)}$ 243^(1/5)	8 3
Absolute Value (use 2 nd 0 for the catalog and the first item is for absolute value)	-61	abs(-61)	61

Calculator Practice Problems

Use your calculator to solve the following problems.

Round each answer to the nearest tenth.

Answers below.

1. 21^4

2. $\pi(3.6)^3$

3. $(-3)^5$

4. $-64^{2/3}$

5. $\frac{3.375 + 4}{5}$

6. $\sqrt[4]{73} + 5$

7. $|-12.37 + 8.65|$

8. $\sqrt{64 - 25}$

9. $2^6 - \sqrt[4]{625}$

10. $\sqrt{3(2) + 7} + 11$

11. $\frac{\sqrt{8} + \sqrt{6}}{\sqrt{20}}$

12. $\frac{2 + \sqrt{(-2)^2 - 4(-8)}}{2}$

13. $\frac{2 - \sqrt{(-2)^2 - 4(-8)}}{2}$

14. $-11 + \pi$

Answers

1. 194481

2. 146.6

3. -243

4. -16

5. 1.5

6. 7.9

7. 3.72

8. 6.2

9. 59

10. 14.6

11. 1.2

12. 4

13. -2

14. -7.9