

## TI-84 Graphing Calculator Reference Sheet





### General Calculator Functions and Shortcuts

To <b>RESET</b> the Calculator:	
To Turn Off the Calculator:	
The <b>FRACTIONS</b> Shortcut	
To input <b>exponents</b> ...	Use
To input <b>square roots</b> ...	
To input <b>cube roots</b> ...	Press  Select  : $\sqrt[3]{\quad}$ (
To input any <b>nth root</b> ...	Press  Select  : $\sqrt[x]{\quad}$
To input a <b>variable</b> ...	Press
To go back to the home screen from any menu.	
To convert a decimal to a fraction...	Press  Select  : ► Dec
To convert a fraction to a decimal...	Press  Select  : ► Frac
To input <b>logarithms</b> with base other than 10.	Press  Press   (up arrow) Select A: logBASE(











### For General Graphing









To graph a function...	Press  Enter the function in Y <sub>1</sub> Press	You can enter up to 10 functions at once.
To adjust your <b>window</b> that is being graphed ...	Press  Set your dimensions: Xmin = <i>smallest x-value</i> Xmax = <i>biggest x-value</i> Xscl = <i>step size for x-values</i> Ymin = <i>smallest y-value</i> Ymax = <i>biggest y-value</i> Yscl = <i>step size for y-values</i>	For WINDOW shortcuts, press . Zoom In Zoom Out ZStandard ZoomFit ZQuadrant1

To see the <b>table</b> for your graphed function...	Press  	To adjust table settings, press   TblStart = <i>where you want to start</i> $\Delta$ Tbl = <i>what step you want for x-values</i> Indpnt: Auto Ask Depend: Auto Ask
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## Other Things to Note

Scientific Notation	When you see 5E-14, this is shorthand for scientific notation: $5 \times 10^{-14}$ Most times a number involving E typically means “zero”. You can also type in numbers in scientific notation by pressing  
Pi (3.14)	Press  
The Negative vs. Minus Symbol	Negative  Minus  ( <i>cannot be used at the beginning of functions or statements</i> )
The Absolute Value	Press  ,  , Select 1: abs(

## How To Do Unit 1 Concepts in the Calculator

1.1 Fractions	Use the fraction shortcut to input fractions and perform the operations.
1.2 Solving Equations	Use Numeric Solver Press  ,  , Select B: Numeric Solver Enter the left side of the equation in E1 Enter the right side of the equation in E2 Press  twice. The answer will appear as well as $\bullet E1-E2 = 0$
1.3 Exponents	You will have to perform the exponent rules yourself if variables are involved.
1.4 Radicals	To take the square root of perfect square... Press   You will have to perform the radical rules yourself if variables and non-perfect squares are involved.
1.5 Complex Numbers	To work with complex numbers, you will have change the mode on your calculator: Press  The seventh line, select a + bi (next to REAL). To input <i>i</i> , press   Then you can add, subtract, multiply and divide expressions involving <i>i</i> .

## Graphing Calculator Practice Problems

Name: \_\_\_\_\_

Use the calculator to answer these questions below, use the reference sheet if you get stumped on a problem.

a.  $-12.1 - 15.3$

b.  $143.72 \text{ times } 8.9$

c.  $55^4$

d.  $3^8 - 4^5$

e.  $\sqrt[3]{64}$

f.  $|-54.2| + 5 \cdot |14.7|$

g. Solve  $-(3x + 7) + 35 = 2(x - 4)$

h. Evaluate  $\frac{1}{8} \div \frac{10}{7}$

i. Simplify  $\frac{3-4i}{12-6i}$

j. Evaluate  $i^{351}$

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