TI-84 Tip Sheet – Calculations

Use [A-LOCK ALPHA] [STAT PLOT F1 Y=] for fraction templates.

$\frac{3}{4}+\left(2\frac{5}{6}\right)$

Use [A-LOCK ALPHA] [TBLSET F2 WINDOW] for the absolute value template.

$|7-(3^2)*2|+4$

Use [A-LOCK ALPHA] [TBLSET F2 WINDOW] for the summation template.

$\sum_{I=1}^{10}(I^2)$

Use [A-LOCK ALPHA] [TBLSET F2 WINDOW] for the logarithm template.

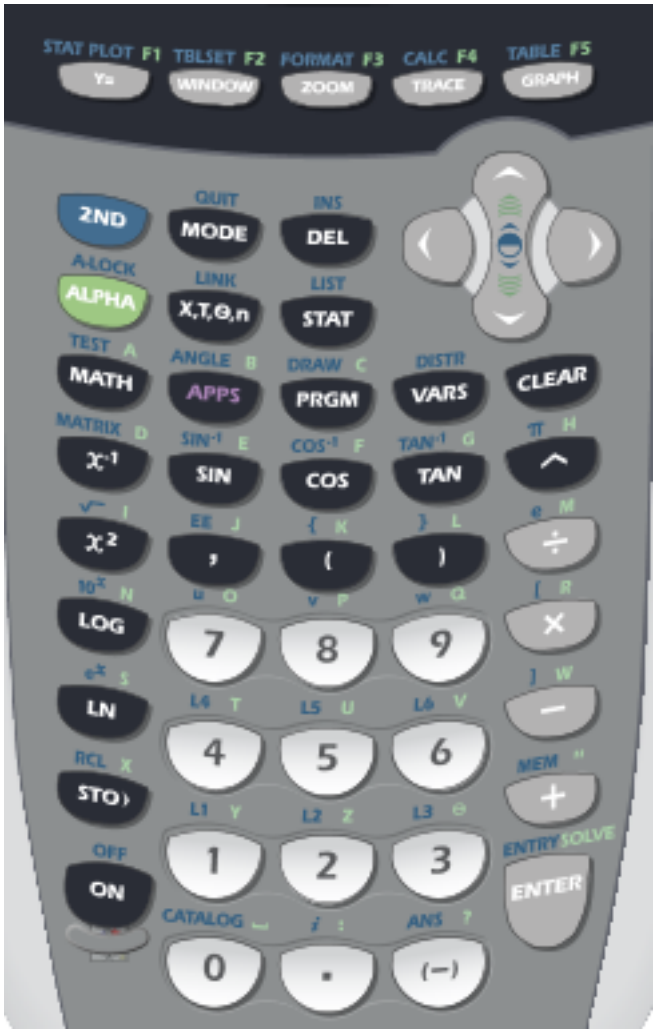
$\log_3(8)$

Use [TEST A MATH] [L5 U 5] for the nth root template.

$\sqrt[5]{32}$

Use [TEST A MATH] [◀] [L3 θ 3] to calculate a combination.

6 nCr 3



Use [◀▲] to scroll up and highlight a previous entry or answer, press [ENTRY SOLVE ENTER] to paste to the current entry line, and then edit as needed for a new calculation.

Use [STO▸] to store values into variables. Then calculate an expression with the variables.

2→A 3→B -4→C

B^2-4AC

Use [A-LOCK ALPHA] [FORMAT F3 ZOOM] for matrix templates.

$\begin{bmatrix} 3 & 4 \\ -2 & 1 \end{bmatrix}^{-1}$

Use [QUIT MODE] to change between the Angle mode between Degree and Radian.

sin(π/6)

Use [π H ^] to raise a number to a power.

$(-2)^4$

Use [2ND] [π H ^] for calculations with pi.

2*π*10

Use [ANS ? (−)] for negative.

$4-(-2)^2$

Use [2ND] [i :] for calculations with the imaginary number *i*.

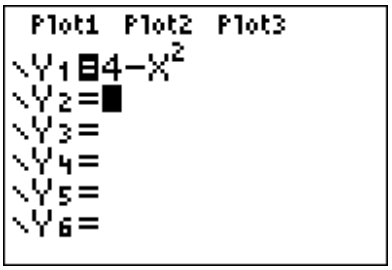
(2+3i)(4−i)

Use [STAT PLOT F1 Y=] to enter a function. On the home screen ([2ND] [QUIT MODE]), use [A-LOCK ALPHA] [CALC F4 TRACE] to evaluate the function at a given y-value.

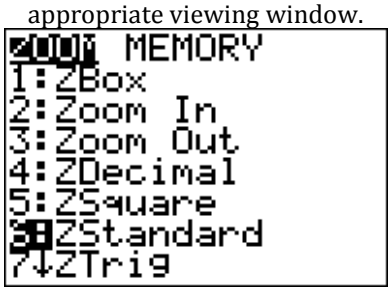
$Y_1=4-X^2$ $Y_1(-3)$

TI-84 Tip Sheet – Graphing

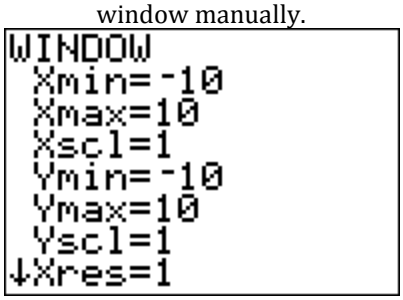
Use [STAT PLOT F1 / Y=] to enter a graph.



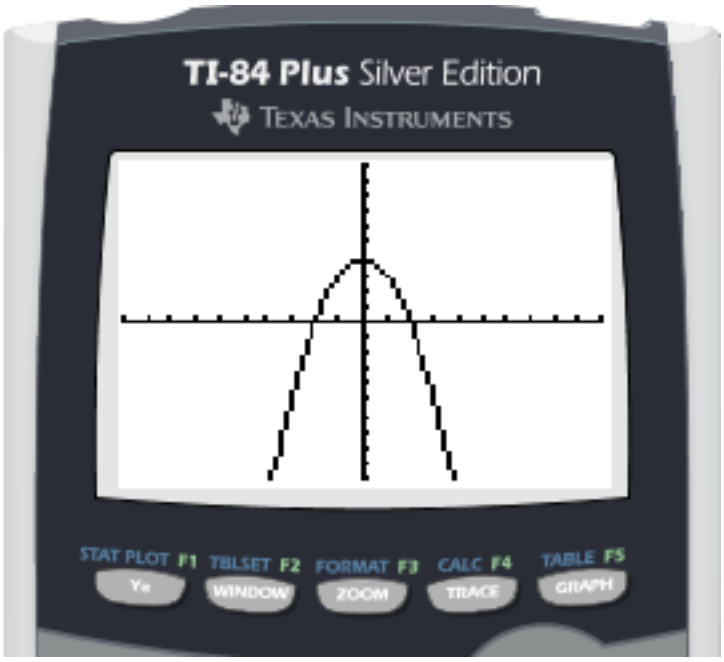
Use [FORMAT F3 / ZOOM] to select an appropriate viewing window.



Use [TBLSET F2 / WINDOW] to set the viewing window manually.

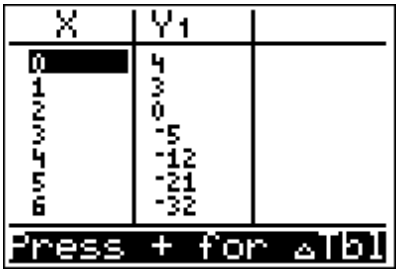


Use [TABLE F5 / GRAPH] to view and analyze the graph.

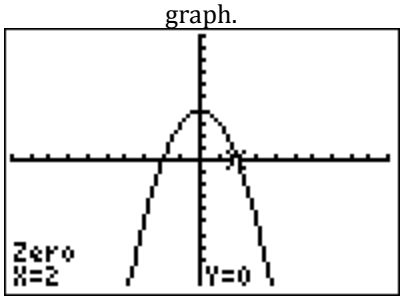


Use [2ND] [TBLSET F2 / WINDOW] to set up the table.

Use [2ND] [TABLE F5 / GRAPH] to view the table.



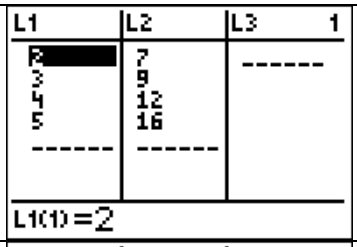
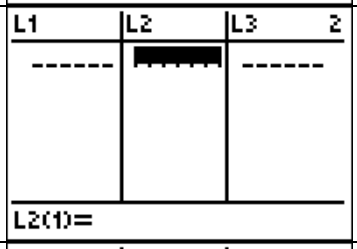
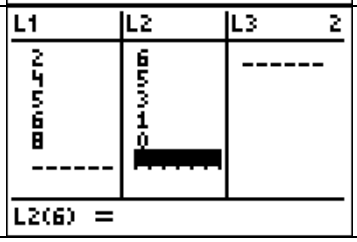
Use [2ND] [CALC F4 / TRACE] to analyze the graph.



TI-84 Tip Sheet – Plotting Data

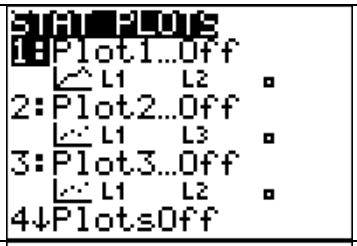
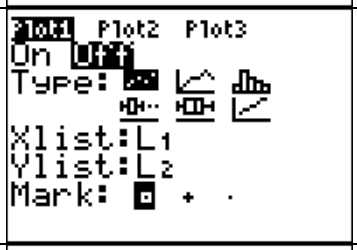
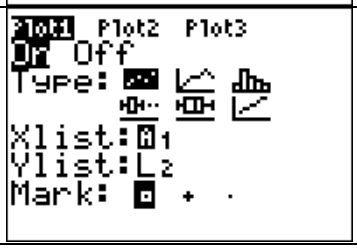
Entering data into lists

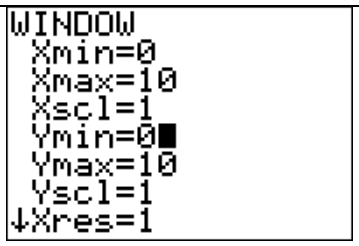
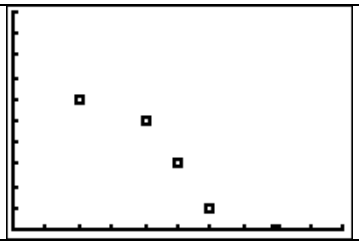
Create L_1 and L_2 from the given information: (2, 6), (4, 5), (5, 3), (6, 1), (8, 0)

STAT ENTER (This command takes you to the statistical editor. If your editor does not currently show L1, L2, and L3, then press STAT 5 to set up the editor. Press STAT ENTER again to re-enter the editor.)		
↑ CLEAR ENTER (if L1 already contains data) → ↑ CLEAR ENTER (if L2 already contains data) ← (returns to L1)		
Enter data in L1 and L2 using the numeric keys, ENTER, and the arrow keys to move between lists. 2nd MODE (exits data editor and displays whatever is currently on your home screen)		

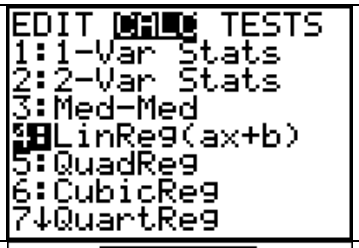
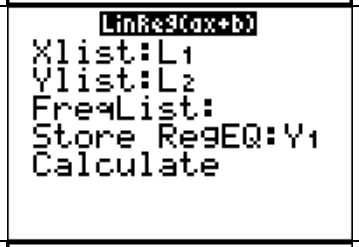
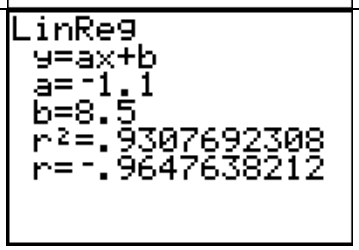
Plotting data

When you have statistical data stored in lists, you can display the data you have collected in a scatter plot, xyLine, histogram, box plot, or normal probability plot.

2nd Y= (This command takes you to the list of stat plots.) 4 ENTER (turns plots off if any plots are on) 2nd Y= 1 (Select 1 for plot 1).		
ENTER (turns Plot1 on) ↓ (Use the left/right arrows and enter to select the type of plot. The first one is a scatter plot.)		
↓ 2nd 1 (enters L1 as the Xlist) ↓ 2nd 2 (enters L2 as the Ylist) ↓ (Use the left/right arrows and enter to select the plotting mark.)		

WINDOW (Use the up/down arrows to enter appropriate values for Xmin, Xmax, Ymin, Ymax.) Alternatively, use FORMAT F3 ZOOM > ZoomStat to set up the viewing window automatically.	
GRAPH Note: If the calculator graphs another function besides the stat plot, press Y= to CLEAR any functions Y_1 through Y_{10} that are not empty and then GRAPH again.	

Calculating a Linear Regression Equation

Press STAT then move cursor to CALC then select LinReg(ax+b).	
Tell the calculator which lists to use to create the linear regression equation and where to paste the equation once it is calculated. Press 2ND 1 for L1, 2ND 2 for L2, and A-LOCK ALPHA CALC F4 TRACE ENTRY SOLVE ENTER for RegEQ.	
If you do not see r^2, then turn on your diagnostics by pressing QUIT MODE, then ⌄ until you reach STATDIAGNOSTICS. Press › ENTRY SOLVE ENTER CLEAR. Then you can press ⌃ on the home screen until you highlight the original command, ENTRY SOLVE ENTER to paste the command to the current entry line, and ENTRY SOLVE ENTER to calculate the regression equation again with the diagnostics on.	
The equation is pasted in the STAT PLOT F1 Y= screen, press TABLE F5 GRAPH to view the line of regression.