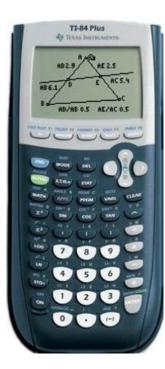
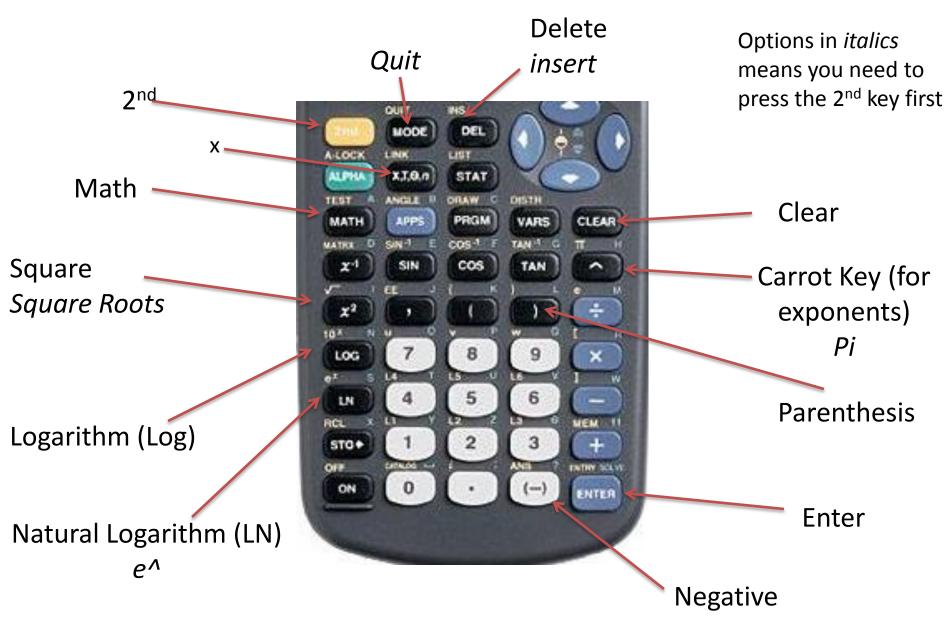


How to Use the TI 83/84

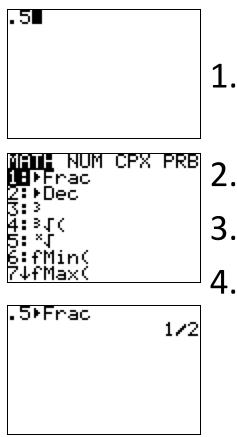


Mary Stangler Center for Academic Success

Location of Important Items



Decimal to Fraction



Scenario 1: Scenario 2:

- 1. Type in the 1. Your last decimal answer v
- 2. Press Math
- 3. Press Enter

4. Press Enter

- answer was a decimal
- 2. Press Math
- 3. Press Enter
- 4. Press Enter



MANE NUM	CPX	PRB
i∎⊧Frac		
2:⊧Dec		
3:3		
4:°{[(
5: ×(
ð∶fMin(7↓fMax(
7↓fMax(

986/2500	.3944
Ans⊧Frac,	
4	93/1250

Division, Fractions and Exponents

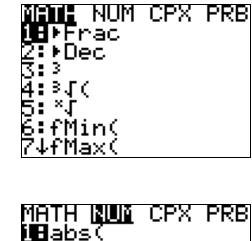
- Order of Operations are followed!!
- If you have a complex fraction, where the top or the bottom has multiple parts then the top and bottom need to be in their own parenthesis.
- When using ^ (carrot key) for exponents note that only the first that number (or variable) is an exponent.

Absolute Value

To Graph an absolute value or find the absolute value use the following steps:

- 1. Press Math
- 2. Go over to Num
- Press Enter (or Number 1)

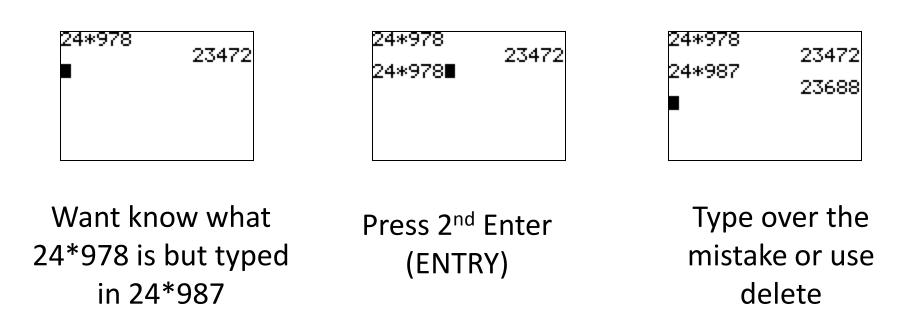
Note that Absolute Value or abs automatically comes with an open parenthesis.



MHTH <u>Num</u>	CPX	PRB
i H abs(
2:round(
B:iPart(
4:fPart(5:int(6:min(7↓max(
5:int(
6° min(
r∳nax(

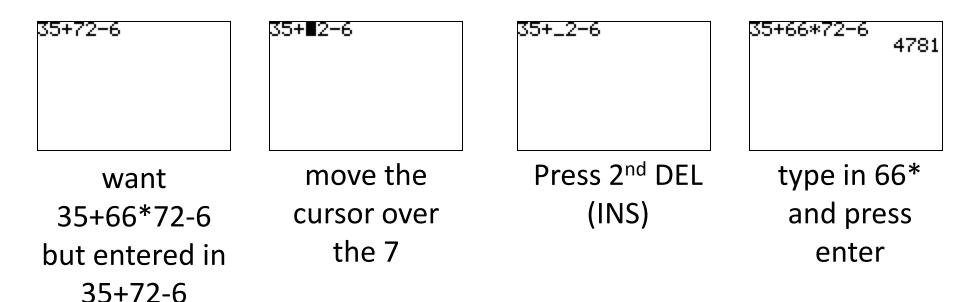
Fixing a Mistake 1

If a mistake was made in your equation and you pressed enter. Just press 2nd enter and it will reappear



Fixing a Mistake 2 Using Insert

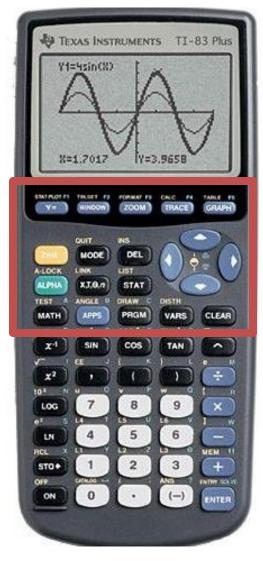
If you forgot to type something in, Move the cursor over the number (or variable) that you want to be behind what your adding, then press 2nd DEL (INS) and type in what you want. Then press enter.

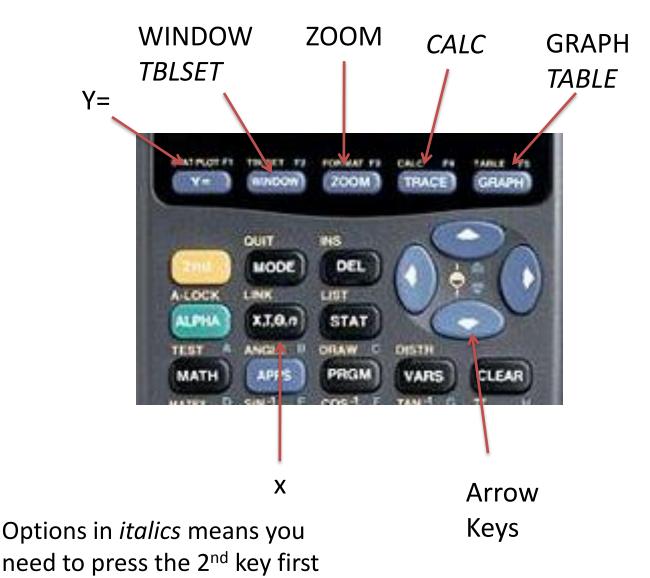


Delete vs. Clear

- Delete or (DEL) is nice if you want to remove one or two things from a long line of stuff. Just move the cursor over what you want to delete then press DEL
- Clear is nice if you want to remove an entire line of stuff (or clear the home screen). Just Press Clear

Graphing Important Keys

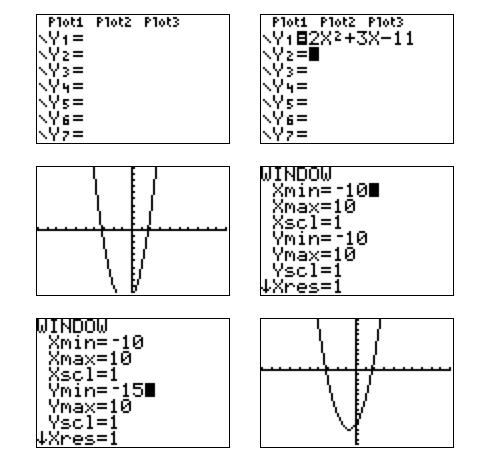




Graphing

- 1) Press Y=
- 2) Type in function using X,T,θ, n
- 3) Press Graph
- 4) Press Window
- 5) Adjust window
- 6) Press Graph

Note the up/down switch the cursor between lines, left right move the cursor along line



Note on the Window

If you changed the window and want to get back to the standard window (where Xmin and Ymin = -10, Xmax and Ymax =10, and Xscl and Yscl =1)

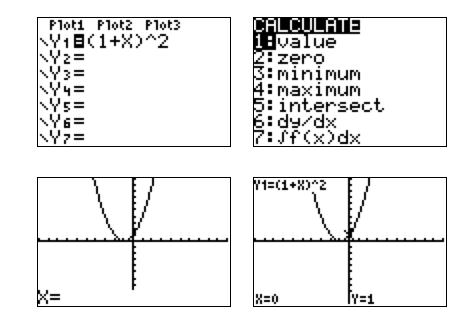
- 1. Press ZOOM
- 2. Press 6 (Zstandard)

ZOION MEMORY	
1:ZBox	
2:Zoom In	
3:Zoom Out	
4:ZDecimal	
5:ZSquare	
25tandard	
717Tri9	
7441619	

Y-intercept

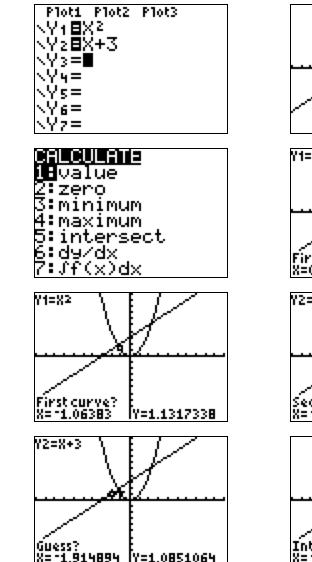
- 1. Graph the line
- Press 2nd Key then Trace (the CALC option)
- 3. Press Enter or 1 (for Value)
- Type in zero for the x=, then press enter
- 5. The Y-intercept is shown.

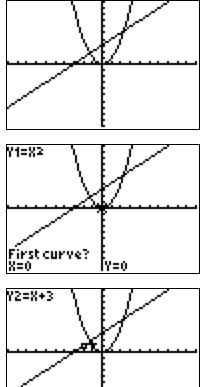
If there is more than one line and therefore more than one intercept use the up/down arrows to move between lines.

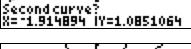


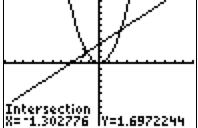
Intersection

- 1. Graph at least 2 lines/curves
- 2. Press 2nd Key then Trace (the CALC option)
- 3. Go to #5 intersect either press enter or number 5
- 4. Move the cursor(left/right)close to the first to the first intersection point. The press enter
- 5. Repeat step four for the second curve.
- 6. Press enter again
- 7. The intersection point appears.
- For every intersect, must repeat steps 2-7.







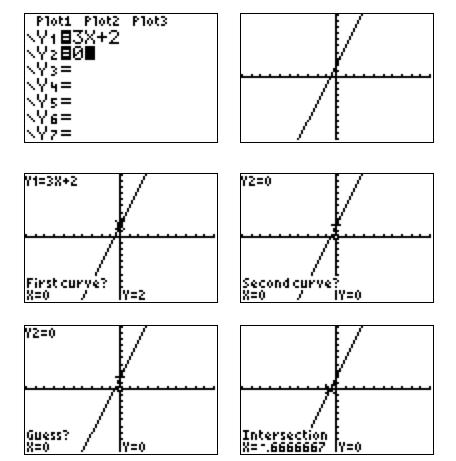


X-Intercept: Method 1

- 1. Graph the function and graph y=0
- 2. Press 2nd Key then Trace (the CALC option)
- 3. Go to #5 intersect either press enter or number 5
- 4. Move the cursor(left/right)close to the first to the first intersection point. The press enter
- Repeat step four for the second curve (y=0)
- 6. Press enter again
- The intersection point appears. This point happens to be the x-intercept)

Repeat steps 2 through 7 for each

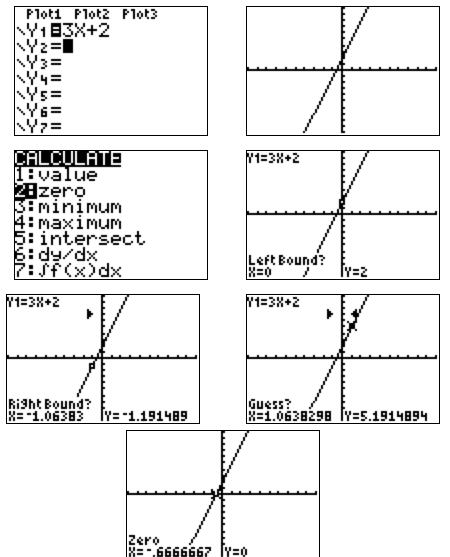
x-intercept



X-intercept: Method 2

- 1. Graph the function
- Press 2nd Key then Trace (the CALC option)
- 3. Select #2 Zero and press enter (or press 2)
- 4. Move the cursor to the left bound side of the x-intercept, and press enter
- 5. Move the cursor to the right bound side of the x-intercept and press enter
- 6. Press enter again
- 7. The x-intercept appears

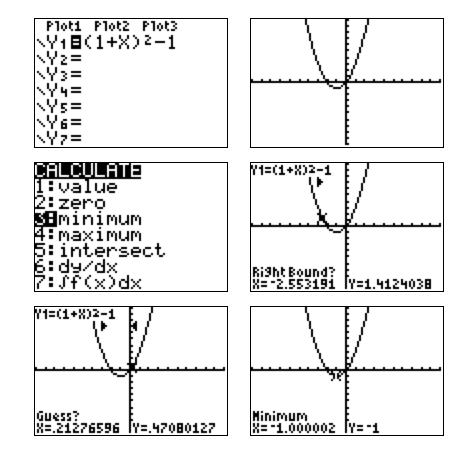
Repeat steps 2 through 7 for each x-intercept



Max/Min

- 1. Graph the function
- Press 2nd Key then Trace (the CALC option)
- 3. For Minimum: Select Number 3 For Maximum: Select Number 4
- 4. Go to the left side of max or min and press enter
- 5. Go to the right side of the max or min and press enter
- 6. Press enter again
- 7. The max or min point is then given

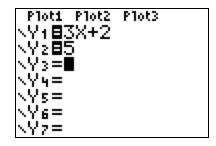
Repeat steps 2 through 7 for each max and/or min

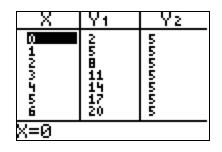


Solve Numerically

When the textbook says to solve numerically, this means by a table

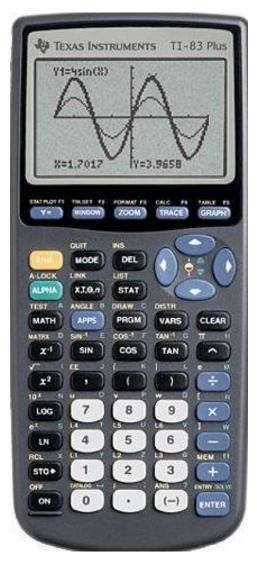
- 1. Graph the functions
- 2. Press 2nd and then graph (the Table option)
- 3. To adjust the interval the x's are in Press 2nd then Window (the TBLSET option)
- 4. Use TblStart= to set the starting value of the table
- 5. Use Tbl = to change the step interval

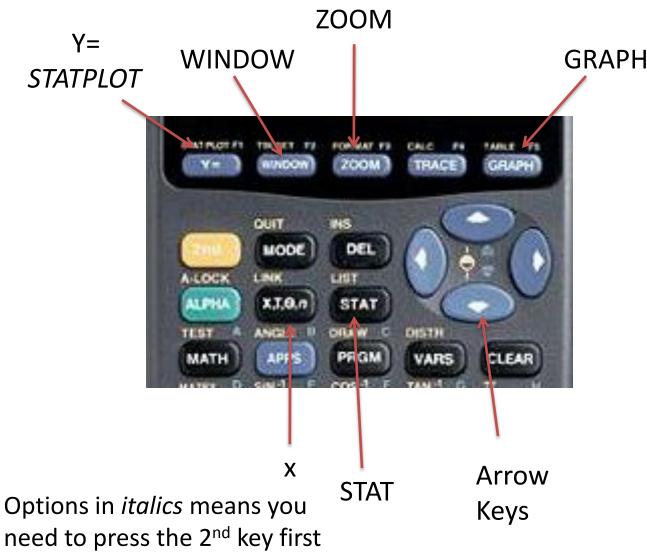






Plotting Points Important keys

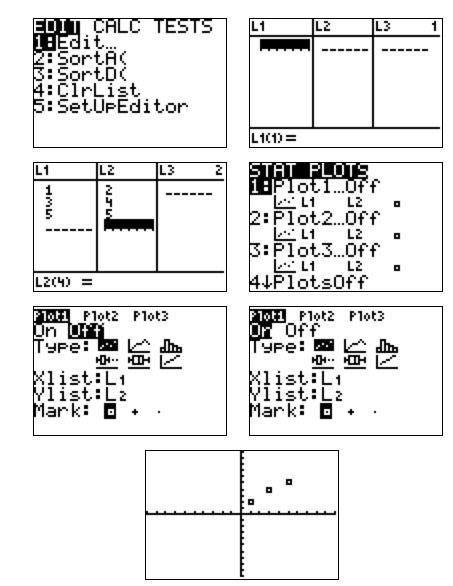




Plotting the Points

- 1. Press STAT
- 2. Press Enter
- 3. Type in x values in L1 and y values in L2. Press Enter after each value. Use the left and right arrow keys to move between the lists.
- 4. Press 2nd y= (STATPLOT)
- 5. Press Enter
- Make sure the cursor (flashing) is over the on, then press enter.
- 7. Press Graph

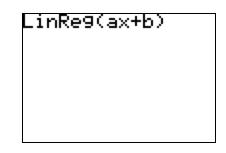
Note: Use 2nd Mode (QUIT) to Exit out of the Lists

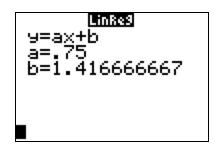


Find the line of best fit

- 1. Enter the points into the list
- 2. Press STAT.
- 3. Press the right arrow key to Calc.
- 4. Select LinReg (#4) and press enter
- 5. Press Enter again

The general equation for the line appears followed by the values that go into the equation. (TI 83 will look different) EDIT **DHE** TESTS 1:1-Var Stats 2:2-Var Stats 3:Med-Med 4**H**LinRe9(ax+b) 5:QuadRe9 6:CubicRe9 74QuartRe9





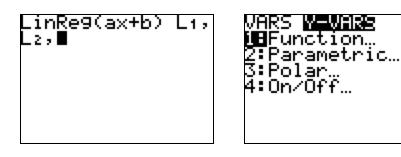
Plotting the Points and Graphing the Line of Best Fit

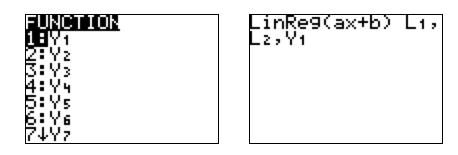
- 1. Press STAT.
- 2. Press the right arrow key to Calc.
- 3. Select LinReg (#4) and press enter
- Type 2nd 1 (L1), then comma, 2nd 2 (L2), then comma
- The Press VARS
 Using the right arrow, move over to
 Y-vars, then press enter
- 6. Press enter again
- 7. Press enter again
- 8. Then press graph

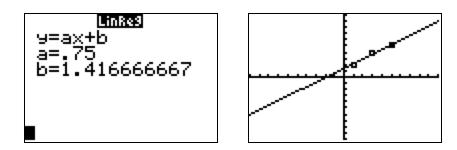
Note: You can Turn the statplot on and

in y= type in formula for line of best

fit.



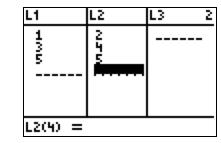




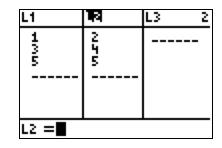
Clearing a List

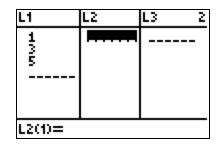
- 1. Press STAT
- 2. Press ENTER
- 3. Use the up arrow until the list name is dark
- 4. Press Clear
- 5. Press Enter

The list is now clear!



L1	1 2	L3 2
1	2	
135	24	
L2 = {2,4,5}		





Resetting the Calculator

If something is wrong with the calculator or you want to clear everything then:

- 1. Press 2nd + (MEM)
- 2. Select Reset (or press 7)
- 3. Select Defaults (or press 2)
- 4. Select Reset (or press 2)
- 5. A screen that says Defaults set will appear.

Warning: This will delete everything (numbers in lists, any functions in y=, games,...)

