

PART 1 USING THE TI-83 PLUS AND TI-84 GRAPHING CALCULATORS

B-1 Preparing the Calculator

Before you graph any function, be sure to clear any information left on the calculator from the last time it was used. You should always do the following:

1. Clear all data in the lists.

Press **2nd** **+** **4** **ENTER**.

2. Turn off all stat plots.

Press **2nd** **Y=** **4** **ENTER**.

3. Clear all equations in the equation editor.

Press **Y=**, then press **CLEAR** for each equation.

4. Set the window so that the axes range from -10 to 10 .

Press **ZOOM** **6**. Press **WINDOW** to verify.

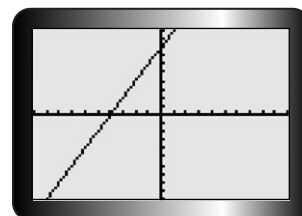


B-2 Entering and Graphing Functions

Enter the equation of the function into the equation editor. The calculator will display the graph.

1. Graph.

To graph $y = 2x + 8$, press **Y=** **2** **X,T,θ,n** **+** **8** **GRAPH**. The graph will be displayed as shown.



2. Enter all linear equations in the form $y = mx + b$.

If m or b are fractions, enter them between brackets. For example, enter

$2x + 3y = 7$ in the form $y = -\frac{2}{3}x + \frac{7}{3}$, as shown.



3. Press **GRAPH** to view the graph.

4. Press **TRACE** to find the coordinates of any point on a graph.

Use the left and right arrow keys to cursor along the graph.

Press **ZOOM** **8** **ENTER** **TRACE** to trace using integer intervals. If you are working with several graphs at the same time, use the up and down arrow to scroll between graphs.