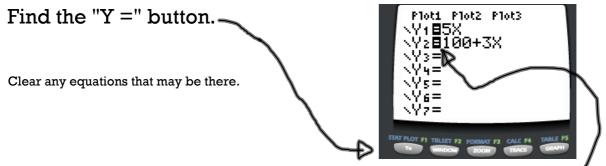
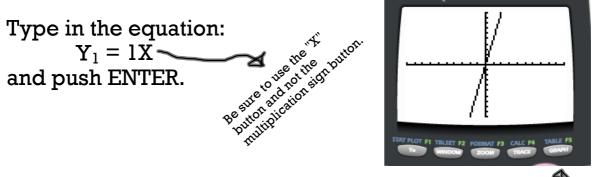
Basic Graphing on the TI-83 Graphing Calculator



An equation will show up on your graph when the = sign looks like this:



Now graph the equation by pushing the GRAPH button.

After graphing, look at the line.

- * How steep is it (what is the slope)?

 Remember that slope is the rate of change or the speed.
- * Where does it cross the vertical axis (what is the y-intercept)?

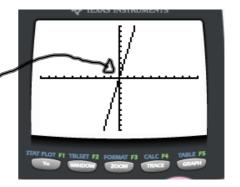
For more information about y-intercept, turn this page over.

<u>Y-intercepts</u> can be found in the equation by looking for the number that is ADDED to the x-term.

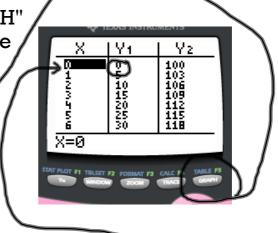
 $Y_1 = 1X \qquad \text{doesn't have a number added to the x term,}$ so change the equation to $Y_1 = 1X + 0$

Now 0 can be recognized as the y-intercept.

The y-intercept appears on the graph at the point where the line crosses the y-axis.



Now push "2nd" and then "GRAPH" which gives you the TABLE for the equation.



Since the y-intercepts lie on the y-axis, and x=0 along the y-axis, the y-intercepts can also be found on the table at the point where x=0.