<u>Lesson #15</u>

Graphing Functions

Y= WINDOW ZOOM TRACE GRAPH

The TI-84 is a powerful graphing tool. The five buttons found just below the calculator's screen are used to enter in equations, graph equations, control graphing settings, and perform certain tasks on a graph.

The y-editor Screen

To graph an equation on the calculator, it must be entered into the y-editor screen

first. Press x=. Notice that the screen contains 7 places to enter in equations. Pressing the key several times will reveal 3 more places to enter equations at the bottom of the screen. Enter the expression $y = \frac{1}{2}x - 3$ into the Y_1 line. Use

the key to enter the variable *x*. This equation is ready to be graphed.

The Graphing Screen

To see the graph of the equation $y = \frac{1}{2}x - 3$, press GRAPH. The graphing screen

consists of two axis: the *x*-axis and the *y*-axis. The *x*-axis is the horizontal axis and the *y*-axis is the vertical axis.



Entering an equation into the Y₁ on the y-editor screen.



The graph of Y₁ on the graphing screen

Set 1 – Graph the following equations on the TI-84 graphing screen. Draw a sketch of the screen.



R#2	$v = \sqrt{x}$
$y = x^2 + 3$	F
R#3	3/
$v = (x + 3)^2$	$y = \sqrt{x}$