

## 1.2 Straight Lines

To graph a function, such as a line:

$\boxed{Y=}$  and enter the equation as Y1. Note that the equation must be solved for  $y$  before it can be entered.

$\boxed{ZOOM}$  and choose 6: ZStandard

To create a scatter plot:

$\boxed{STAT}$  and choose 1: Edit

Enter the first row/column of data in L1 and the second row/column in L2.

$\boxed{2^{ND}} \boxed{STAT PLOT}$  and choose 1: Plot1.

Press  $\boxed{Enter}$  to select On.

Make sure Type shows the first choice, Xlist: L1 and Ylist: L2.

$\boxed{ZOOM}$  and choose 9: ZoomStat

Look at  $\boxed{WINDOW}$  to see the scale.

To find a point on the graph of a function, such as a trend line:

$\boxed{Y=}$  and enter the equation of the function.

$\boxed{GRAPH}$

If you are graphing a trend line, your scatter plot should now have a line through it.

$\boxed{TRACE}$

Type the  $x$ -coordinate of the point you are looking for. This jumps the cursor to the point on the line with your  $x$ -coordinate. Look at the bottom of the screen to see the corresponding  $y$ -coordinate.

## 1.4 Finding the Point of Intersection

To find a point of intersection, such as a break-even or equilibrium point:

$\boxed{Y=}$  and enter the two equations (supply and demand or cost and revenue) as Y1 and Y2.

$\boxed{WINDOW}$  and choose appropriate values.

$\boxed{GRAPH}$

$\boxed{2^{nd}} \boxed{CALC}$  and choose 5: intersect. Follow the prompts by moving the cursor left or right with the arrow keys.