

# Basic Graphing

Note: The instructions given below are specific to my calculator (TI-84) but they should be roughly the same on all calculator types.

**Problem:** Graph the equation  $y - x^2 + 3x - 2 = 0$  in

1. the standard window
2. the window:  $0 \leq x \leq 3$ ,  $-1 \leq y \leq 2$

**Solution:** First, rewrite the equation by solving for  $y$ :

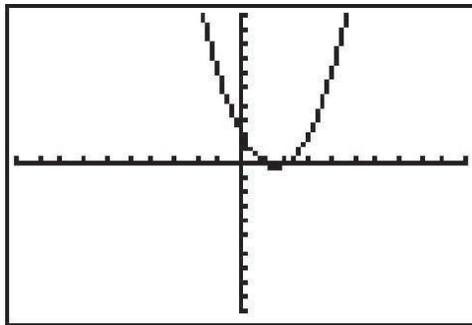
$$y = x^2 - 3x + 2$$

The following steps will graph the above equation:

- (1) Press the **Y=** button.
- (2) Type in the equation: **X,T,Θ,n**, **^**, **2**, **-**, **3**, **X,T,Θ,n**, **+**, **2**
- (3) Press the **GRAPH** button.

To put the graph in the standard window, perform the following steps:

- (1) Press the **ZOOM** button.
- (2) Use the arrow buttons to scroll down to 6:ZStandard and press **ENTER**.



To put the graph in the window,  $0 \leq x \leq 3$  and  $-1 \leq y \leq 2$ , perform the following steps:

- (1) Press the **WINDOW** button.
- (2) Type **0** for Xmin.
- (3) Use the arrow buttons to scroll down to Xmax. Type **3**.
- (4) Scroll down to Ymin. Type **(-)**, **1**.

(5) Scroll down to Ymax. Type .

(6) Press the  button.

