

## Graphing on the TI-89

Before you begin graphing, you will need to clear any functions or variables stored in your calculator.

### To Clear Home Screen

(Home if not on home screen)

**F1** then **8**

**Clear**

### To Clear Previously Saved Variables

**2<sup>nd</sup> F6** then **Enter Enter**

### To Clear Previously Saved Functions

**Diamond Y=**

**F1** then **8 Enter**

### To Set Graph Mode

**Mode** (Graph is highlighted)

→ then **1 (Function)**

**Enter**

### To Set Graph Scale

**Diamond Graph**

**F2: Zoom**

**6: ZoomStd** - Usually referred to as the standard viewing window. Sets the x and y axis from -10 to 10. This view is not in proportion as the scale is greater along the x axis.

**F2: Zoom**

**5: ZoomSqr** - View is in proportion. The scale is the same on each axis but smaller.

(To view the settings and change as necessary)

**Diamond Window**

### Entering Functions

(Equations must be in slope intercept form  $y = mx + b$  )

**Diamond Y=**

Enter the following equations

(Type only the right side)

$$y1 = 2x + 1$$

$$y2 = -3x + 2$$

$$y3 = 3$$

$$y4 = \frac{3}{4}x - 3$$

(Notice that each equation has a check beside it. Those that are checked will be graphed.)

## Graphing Equations

**Diamond Graph**

(This shows all four graphs)

## Selecting Graphs

**Diamond Y=**

(F4 toggles the check on or off.)

Highlight **y2** and tap **F4**

Tap **F4** again and the check reappears.

## Changing Graph Formats

(2<sup>nd</sup> F6 changes the style of the graph)

Highlight y1

2<sup>nd</sup> F6 then 2 (graph will be dotted)

Highlight y2

2<sup>nd</sup> F6 then 4 (graph will be thicker)

Highlight y3

2<sup>nd</sup> F6 then 7 (area above graph will be shaded)

Highlight y4

2<sup>nd</sup> F6 then 3 (graph will be heavy line)

To view the graphs **Diamond Graph**