Graph Restricted

An important part of using the graphing utility is the Graph Formats menu settings.

From the **y=** menu press F1 9 to get to the format menu. These are the standard settings.
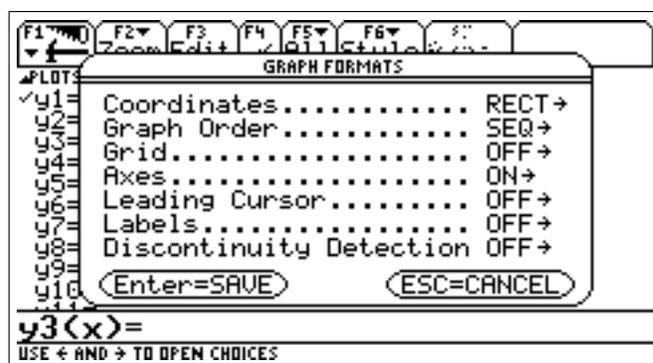
To graph $y = x^2$ restricted to $x \leq 0$, you must use the conditional operator key | .

In the **y=** menu type:

$y1 = x\^2 \mid x \mathbf{<=} 0$

Graph the **y1** equation. The view window should show the left portion of the graph of $y = x^2$.

Now try graphing:

$$y1 = 0 * x - 3 \mid x <= -2$$

$$y2 = 3 * x\text{\textasciicircum}2 - 5 \mid x > -2 \ \text{ and } \ x <= 1$$

$$y3 = 2 * x + 1 \mid x > 1$$

Notice to graph the form $y = -3$ you must include $\mathbf{0x}$ in the expression for the conditional operator to work.