Graph Restricted

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

From the main activity window tap $\blacktriangledown$ and go into `Graph Format` menu. These are the standard settings.
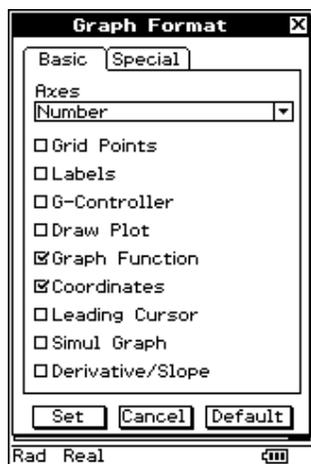
To graph $y = x^2$ restricted to $x \leq 0$, you must use the conditional operator button $\boxed{|}$.

In the graph entry window type:

$$y1 = x\verb|^|2 \mid x \leq 0$$

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

Now try graphing:

$y1 = -3 \mid x \leq -2$

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

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

Here is a view of the graphs with the restrictions.