Graph Restricted

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

From the main activity window tap ***** and go into **Graph Format** menu. These are the standard settings.

Graph Format 🛛 🕅
Basic Special
Axes Number 🔽
□Grid Points
□Labels
□G-Controller
🗆 Draw Plot
☐Graph Function
☑Coordinates
□Leading Cursor
□Simul Graph
□Derivative/Slope
Set Cancel Default
Rad Real 📶

To graph $y = x^2$ restricted to $x \le 0$, you must use the conditional operator button $\begin{bmatrix} \\ \\ \end{bmatrix}$.

In the graph entry window type:

 $y1=x^{\wedge}2\mid x\leq 0$

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

Now try graphing:

 $egin{aligned} y1 &= -3 \mid x \leq -2 \ y2 &= 3 * x^{\wedge}2 - 5 \mid x > -2 \ ext{ and } \ x \leq 1 \ y3 &= 2 * x + 1 \mid x > 1 \end{aligned}$

Here is a view of the graphs with the restrictions.

