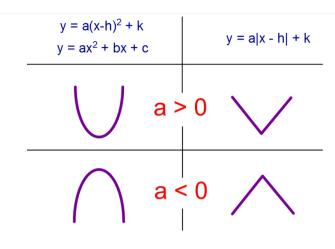


What is the vertex of the Parent Function?

(0,0)

What is the slope of the sides x of the Parent Function?

> Right Side: Slope = 1 Left Side: Slope = -1



Graphing Absolute Value Functions with a graphing calculator.

To graph Absolute Value equations on the Ti-84 you press Y= then perss MATH, arrow to the right so you are under NUM. Choose Option 1: abs(

Enter the equation  $Y_1 = abs(X)$  then you can graph it.

## Absolute Value Graphs Exploration

Graph 
$$Y_1 = |x|$$

Put every other graph in Y<sub>2</sub>

Translations of y = |x| and y = -|x|

1. Graph  $Y_2 = |x+3|$  How has this graph moved compared to the parent function? 3 units left

What are the coordinates of the vertex?

(-3, 0)

