

# Absolute Value Functions & Inequalities



#### **TABLE OF CONTENTS**

Absolute Value Functions
Absolute Value Equations
Absolute Value Inequalities

#### **Absolute Value Functions**

Parent Absolute Value Function: |x|

Vertex: (0,0)

**General Form of Absolute Value Function:** f(x) = a|x - h| + k

• Vertex: (h, k)

### **Absolute Value Equations**

Switch the sign of the right side and calculate the TWO possibilties.

• Check for extraneous solutions (plug it back in)

## **Absolute Value Inequalities**

Similar to an equation **EXCEPT** you switch the *sign* and the *sign* of the right side.

#### **Example:**

