Transformations-Vertical and Horizontal Sh Open the transformationsverticalhorizontal		Name:
Problem 2 : Move the slider d. Describe the movement of the function: $f(x) = (x)^2 + d$ and sketch an example of the graph.		
a. Describe what is happening wh	nen d > 0.	b. Describe what is happening when d<0
Problem 3 : Move the slider c. Describe the movement of the function: $f(x) = (x - c)^2$ and sketch an		
example of the graph. a. Describe what is happening wl	hen c > 0.	b. Describe what is happening when c < 0.
Problem 4: Move both sliders. Can the graph be moved into all four quadrants? In each space provided, record an example of the equation that fits for the quadrant.		
Quadrant 1:		
Quadrant 2:		

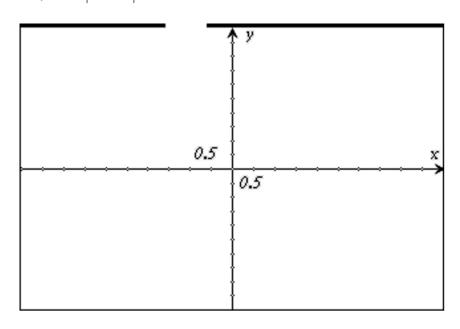
Quadrant 3: _____

Quadrant 4: _____

Problem 5:

Move only 1 slider at a time. Describe the movement of the function: f(x) = |x - c| + d

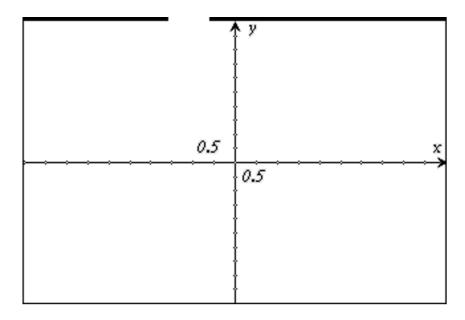
Sketch the graph of f(x) = |x - 2.4| - 3.9



Problem 6:

Move only 1 slider at a time. Describe the movement of the function: $f(x) = (x - c)^3 + d$

Sketch the graph of $f(x) = (x + 4.1)^3 + .8$



Problem 7:

Move only 1 slider at a time. Describe the movement of the function: $f(x) = \sqrt{x-c} + d$

Sketch the graph of $f(x) = \sqrt{x - 1.5} - 2$

