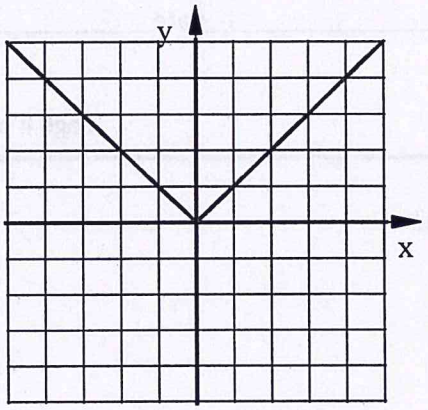
Bellwork Alg 2 Monday, October 7, 2019

1. Below is the graph of the Parent Absolute Value function $y = |x|$

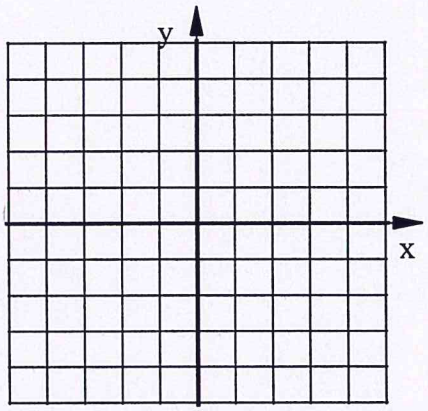


a. What are the coordinates of the Vertex?

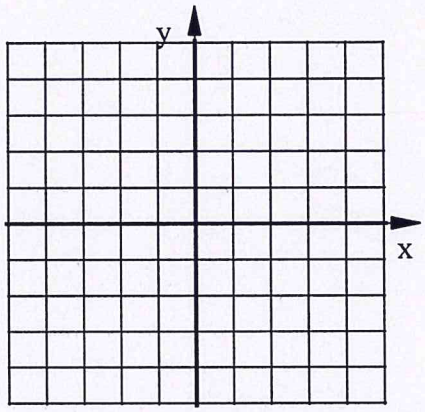
b. What are the slopes of the two sides of the graph? $m =$

Use the given description to graph each transformation of the Parent Absolute Value function using at least five points.

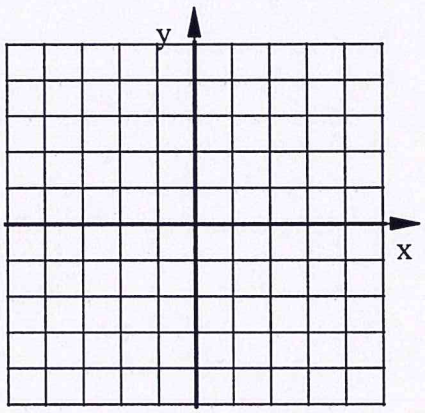
2. Moved 2 left and 5 down.



3. X-axis reflection and moved 4 up.



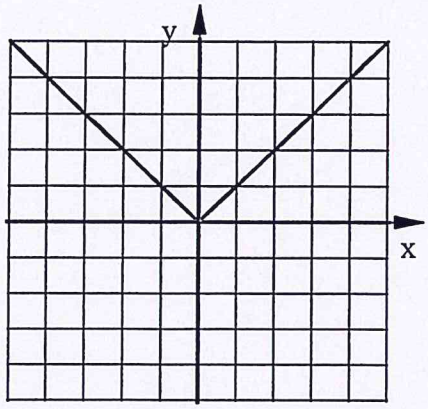
4. Moved 3 right, 4 down, and twice as tall.



Bellwork Alg 2 Monday, October 7, 2019

ANSWERS

1. Below is the graph of the Parent Absolute Value function $y = |x|$

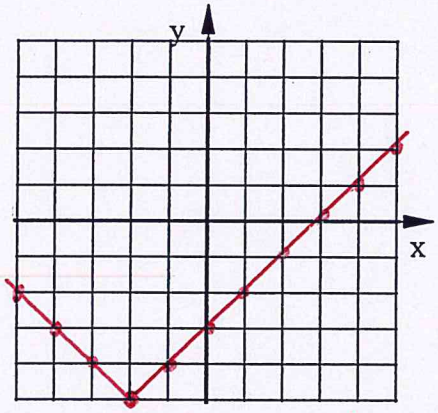


a. What are the coordinates of the Vertex? (0,0)

b. What are the slopes of the two sides of the graph? $m = \pm 1$

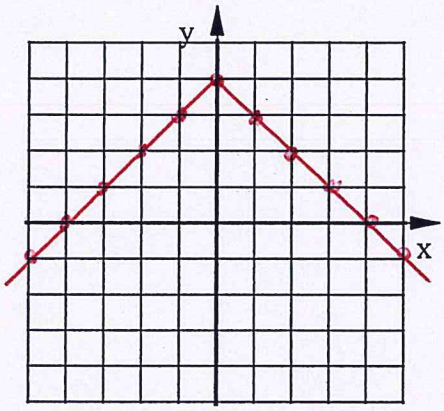
Use the given description to graph each transformation of the Parent Absolute Value function using at least five points.

2. Moved 2 left and 5 down.



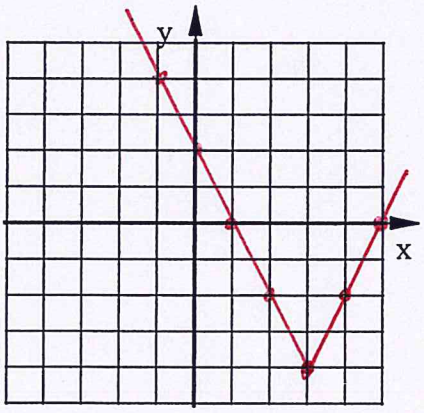
- Vertex (-2, -5)
- slope of sides still ±1

3. X-axis reflection and moved 4 up.



- Vertex (0, 4)
- upside down
- slope of sides still ±1

4. Moved 3 right, 4 down, and twice as tall.



- Vertex (3, -4)
- slope of sides = ±1 • 2

$m = \pm 2$