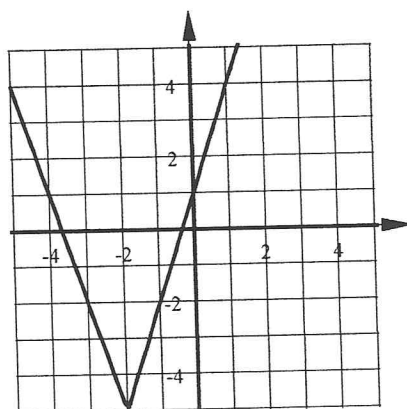
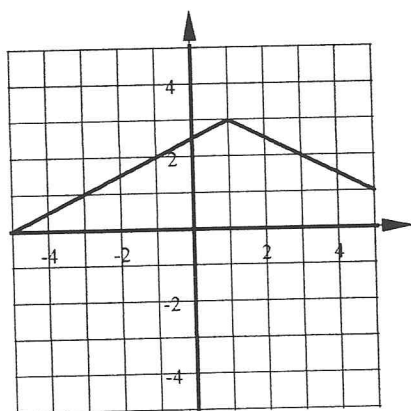


Algebra 1 Bellwork Monday, December 15, 2014

Write the equation of each Absolute Value function described.

- Translated 6 units left, 3 units down, 5 times taller, and opens down.
- Translated 1 unit right, 9 units down, half as tall, and opens up.
- Vertex is $(-4, 0)$, opens down, 3 times taller.
- Describe all the transformations of $y = |x|$ that this equation represents:
 $y = -\frac{2}{3}|x + 7| + 2$

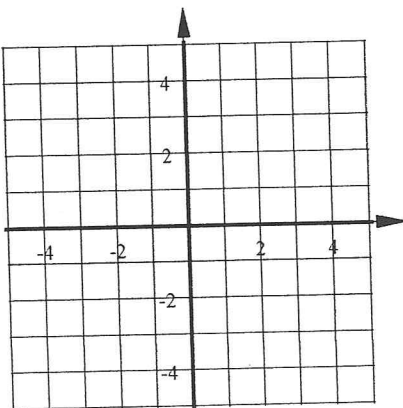
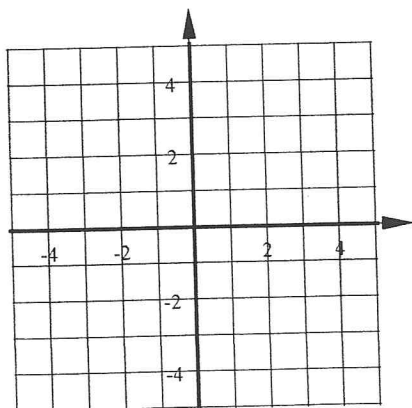
- Write the equation of each Absolute Value Function shown:
 a) b)



- Graph each using at least 5 points.

a) $y = \frac{3}{2}|x + 2| - 4$

b) $y = -2|x - 3| + 1$



Algebra 1 Bellwork Monday, December 15, 2014

Write the equation of each Absolute Value function described.

1. Translated 6 units left, 3 units down, 5 times taller, and opens down.

$$y = -5|x+6| - 3$$

2. Translated 1 unit right, 9 units down, half as tall, and opens up.

$$y = \frac{1}{2}|x-1| - 9$$

3. Vertex is $(-4, 0)$, opens down, 3 times taller.

4 left

$$y = -3|x+4|$$

4. Describe all the transformations of $y = |x|$ that this equation represents:

$$y = -\frac{2}{3}|x+7| + 2$$

7 units left

$\frac{2}{3}$ as tall

2 units up

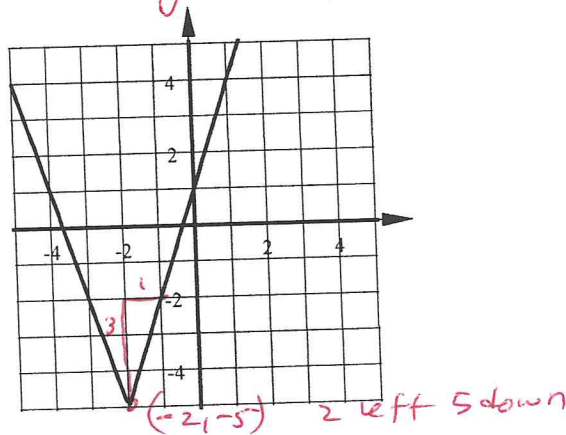
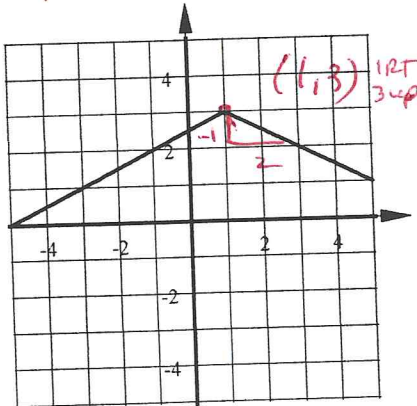
opens down

5. Write the equation of each Absolute Value Function shown:

a) $y = -\frac{1}{2}|x-1| + 3$

b)

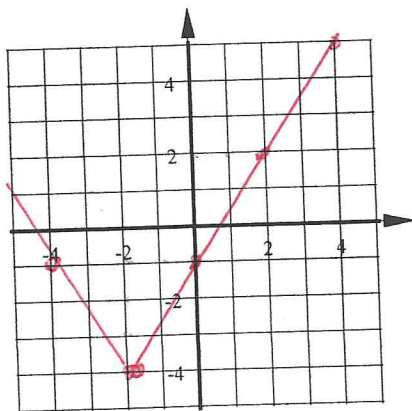
$$y = 3|x+2| - 5$$



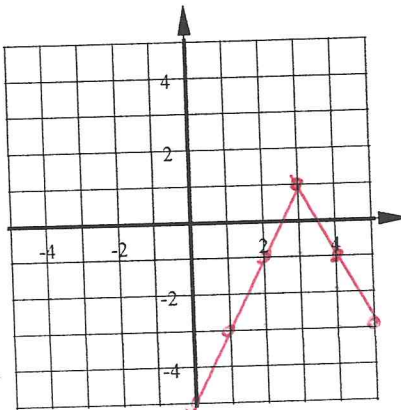
6. Graph each using at least 5 points.

a) $y = \frac{3}{2}|x+2| - 4$

b) $y = -2|x-3| + 1$



2 left
4 down
opens up
 $\frac{3}{2}$ as tall



3 RT
1 up
2x taller
opens down