Bellwork Thursday, March 13, 2014

(-11, -6)

1. The function $y = |x|$ is translated 11 units left and 6 units down, it opens down, and the sides have a slope of ± 5. Write the equation of this function.

$Y = -5|x + 11| - 6$

2. Write the coordinates of the vertex of this absolute value function.

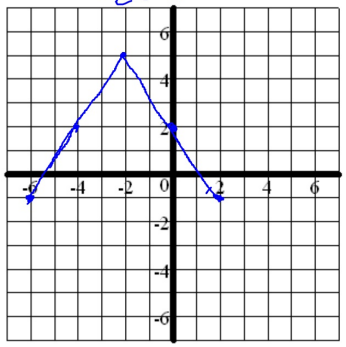
$y = -0.75|x - 15| + 21$

(15, 21)

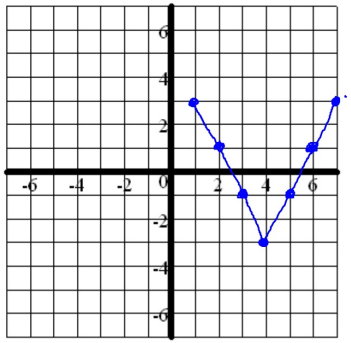
3. Graph each absolute value function using at least 5 points.

a) $y = -\frac{3}{2}|x + 2| + 5$

$-3/2(4)$ $-6+5=-1$

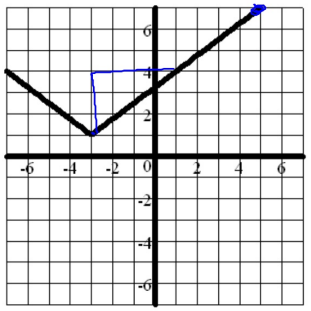


b) $y = 2|x - 4| - 3$



4. Write the equation of each absolute value function.

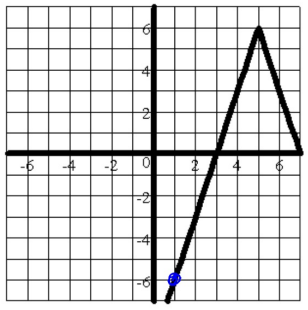
a) *EQ*



(-3, +1)

$Y = \frac{3}{4}|X+3|+1$

b) *EQ*

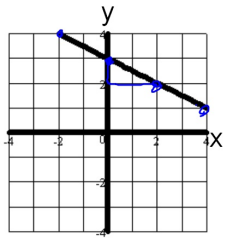


$y=-3|x-5|+6$

:)

5. Write the equation of each line.

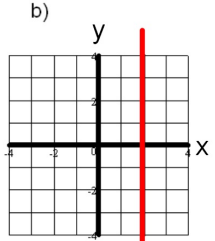
a)



$y-2=-\frac{1}{2}(x-2)$

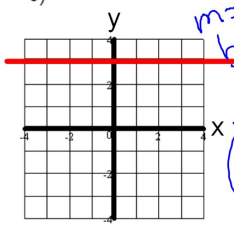
$y=\frac{1}{-2}x+3$

b)



$x=2$

c)



$m=0$

$b=3$

$y=0x+3$

$y=0+3$

$y=3$