

Name:

# Unit 3 Day 36: Homework



(1-4) Predict what would happen to the absolute value graph.

1.  $y = |x| - 4$

Down 4

2.  $y = |-x|$

Reflect over y-axis

3.  $y = |x + 6|$

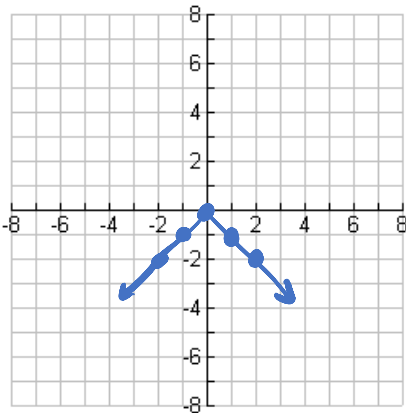
Left 6

4.  $y = -|x - 1|$

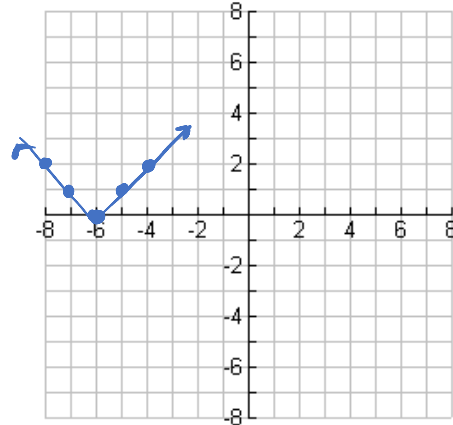
• Reflect over x-axis  
• Right 1

(5-6) Graph the absolute value equations.

5.  $y = -|x|$  Reflect over x-axis



6.  $y = |x + 6|$  Left 6



## What do we like to do??... REVIEW!

7. Decide if the lines are parallel, perpendicular, or neither.

$y = 2x - 3$  and  $-4y = 2x + 8$   
 $\frac{m = 2}{1}$        $\frac{-1}{4} \frac{-1}{4} \frac{-1}{4}$   
 $y = -\frac{1}{2}x - 2$

opposite Reciprocal Slopes

$m = -\frac{1}{2}$

Perpendicular lines

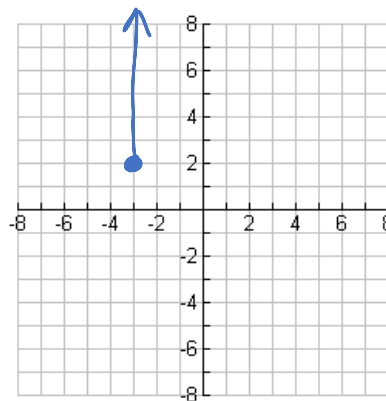
9. Find the x- and y-intercept of the equation:

$3x - 4y = 24$

x-int:  $3x - 4(0) = 24$       y-int:  $3(0) - 4y = 24$   
 $3x = 24$        $-4y = 24$   
 $x = 8$        $y = -6$

x-intercept: (8, 0)      y-intercept: (0, -6)

8. Graph  $x = -3$  with restricted range  $y \geq 2$



10. When is the Unit 3 Test?

Tuesday, Feb. 2<sup>nd</sup>