

Name: _____



Unit 3 Day 38 Homework – Review of Unit 3

1. Find the missing coordinate
 (-2, y) and (0, 9); $m = -7$

$$\frac{9-y}{0-(-2)} = \frac{-7}{1}$$
~~$$\frac{9-y}{2} = \frac{-7}{1}$$~~

$$9-y = -14$$

$$-y = -23$$

$$\frac{-y}{-1} = \frac{-23}{-1}$$

$$y = 23$$

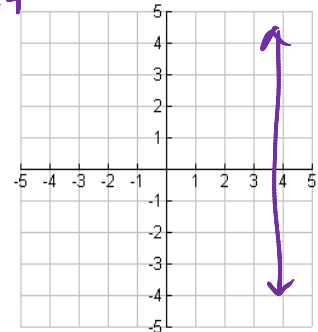
2. Graph the following and determine the slope.

$$4x = 16$$

$$\frac{4x}{4} = \frac{16}{4}$$

$$x = 4$$

Slope: undefined



2. Graph the line using the intercepts method.

$$10x - 5y = 20$$

$$10x = 20$$

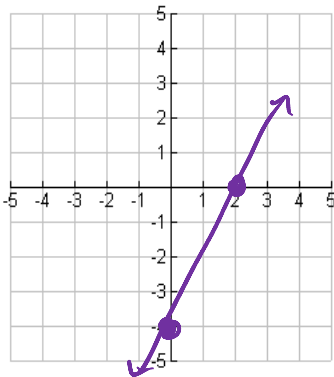
$$x = 2$$

x-intercept: (2, 0)

$$-5y = 20$$

$$y = -4$$

y-intercept: (0, -4)



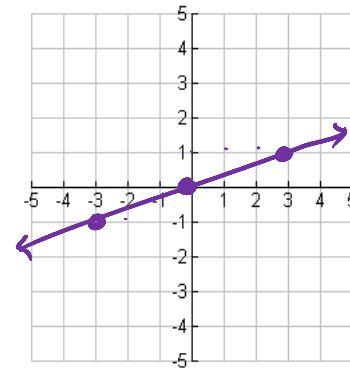
3. Graph the line using the slope-intercept method.

$$-x + 3y = 0$$

$$\frac{3y}{3} = \frac{x+0}{3}$$

$$y = \frac{1}{3}x + 0$$

Slope: $\frac{1}{3}$ y-intercept: (0, 0)



5. Determine if the lines are parallel, perpendicular, or neither.

$$y = \frac{-1}{3}x + 14$$

$m = \frac{-1}{3}$ same slope!

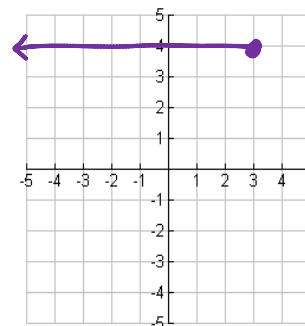
parallel

$$\frac{-3y}{-3} = \frac{x-21}{-3}$$

$$y = -\frac{1}{3}x + 7$$

$m = -\frac{1}{3}$

6. Graph $y = 4$ with the restricted domain $x \leq 3$.



7. Identify the transformations of the parent function, $y = |x|$.

a) $y = |x + 2| - 3$

- ① Left 2
 ② Down 3

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

- ① Reflect over x-axis
 ② Right 4

c) $y = |-x| + 14$

- ① Reflect over y-axis
 ② up 14