

Unit 3- Day 23 Homework

Name: _____

(1-2) Find the slope of the line given the two points and state what type of line it is (upward, downward, horizontal, or vertical).

1. (2, 8) and (2, -9)

$$m = \frac{y_2 - y_1}{x_2 - x_1}$$
$$m = \frac{-9 - 8}{2 - 2}$$
$$m = \frac{-17}{0} \leftarrow \text{undefined}$$

Vertical Line

2. (-3, -7) and (4, -7)

$$m = \frac{y_2 - y_1}{x_2 - x_1}$$
$$m = \frac{-7 - (-7)}{4 - (-3)}$$
$$m = \frac{0}{7} \leftarrow \text{zero}$$

Horizontal

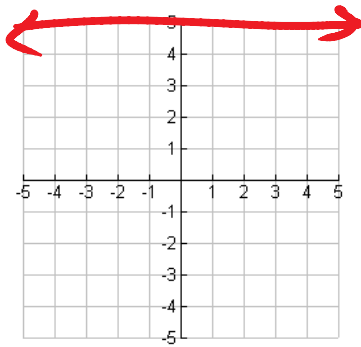
3. (4, -8) and (8, -7)

$$m = \frac{y_2 - y_1}{x_2 - x_1}$$
$$m = \frac{-7 - (-8)}{8 - 4}$$
$$m = \frac{1}{4}$$

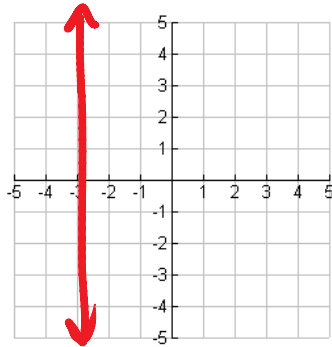
upward

(5-8) Practice graphing the equations on your own!!

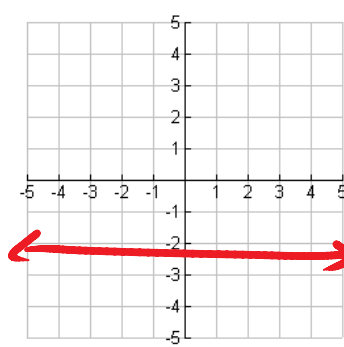
5.) $y = 5$



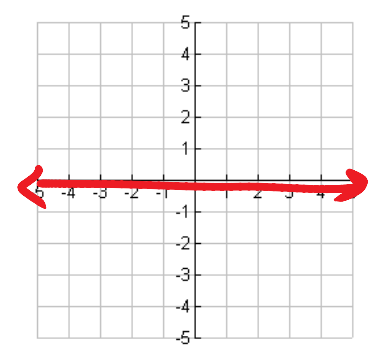
6.) $x = -3$



7.) $y = -2$



8.) $y = 0$



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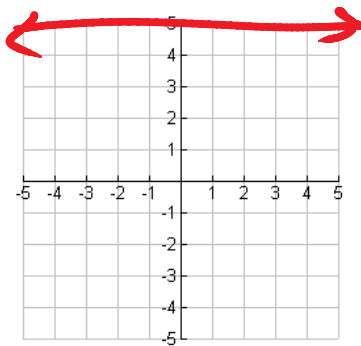
1. (2, 8) and (2, -9)

2. (-3, -7) and (4, -7)

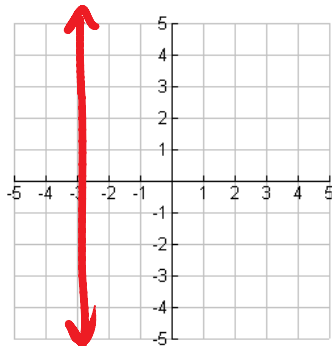
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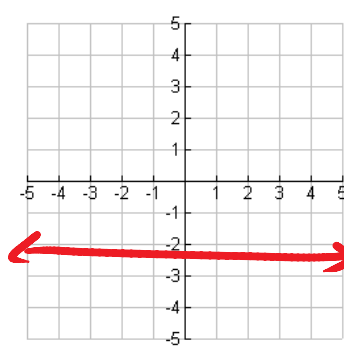
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