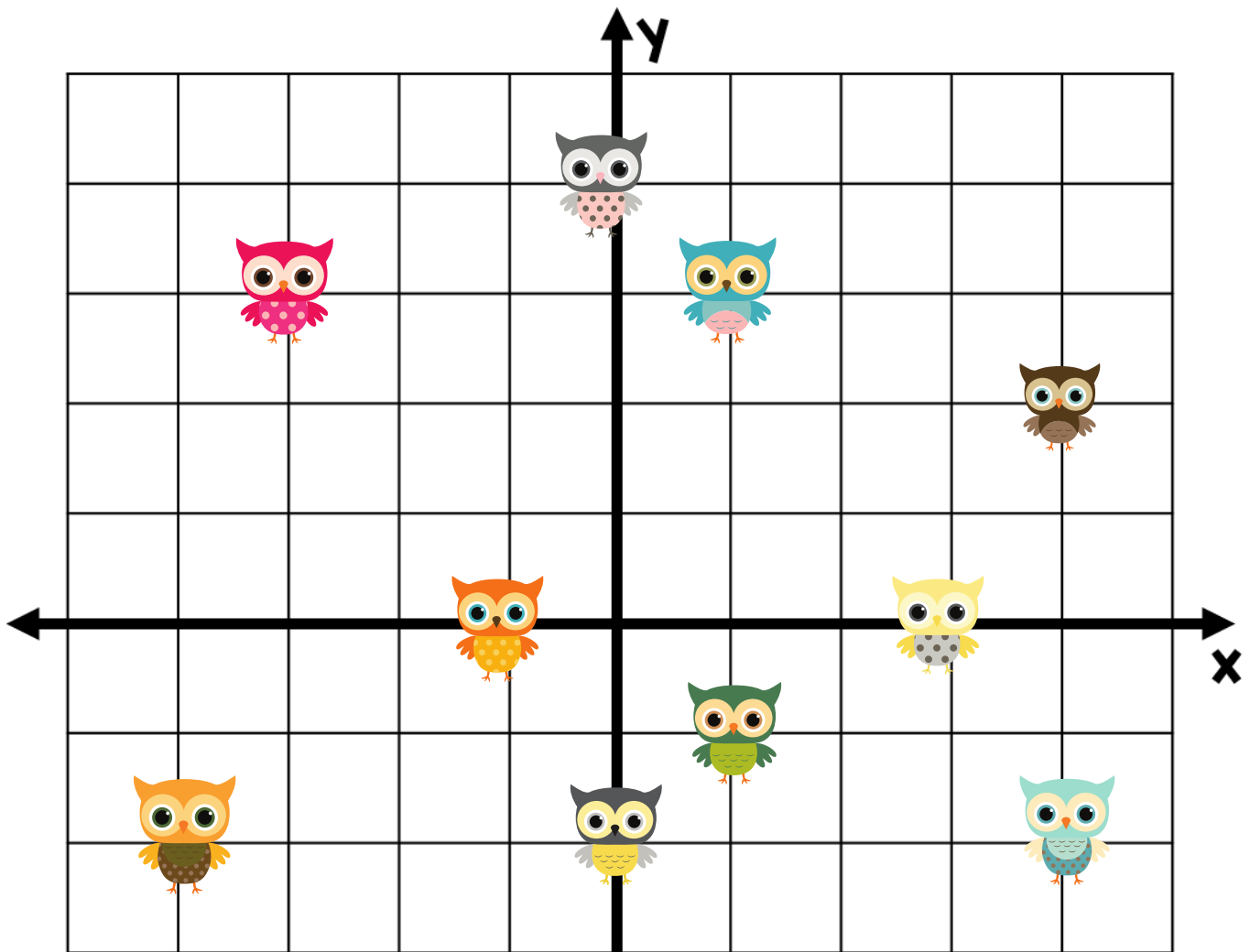


Coordinate Grid

Locate each icon and write the coordinates of its point.



(-, -)



(-, -)



(-, -)



(-, -)



(-, -)



(-, -)



(-, -)



(-, -)



(-, -)



(-, -)

UNDERSTANDING SLOPE

For any equation of a line: $y = mx + b$

THE SLOPE IS M. This means that whatever number is in front of the X, is the slope.

EXAMPLE: $y = 2x + 1$ $m = 2$, the slope is 2

1) What is the slope of the line: $y = -3x + 4$

2) What is the slope of the line: $y = x + 9$

3) What is the slope of the line: $y = 7x - 7$

4) What is the slope of the line: $y = -12x$

5) What is the slope of the line: $y = 6$

BONUS) What is the slope of the line: $5x + y = 4$

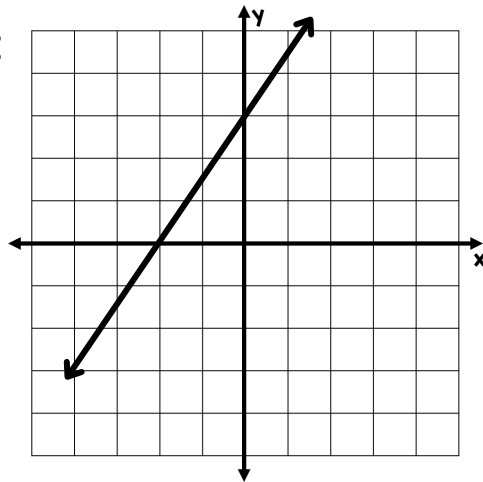
UNDERSTANDING SLOPE

To find the SLOPE from two points (x, y) (x, y)

Determine which is point 1 and point 2, and use the following equation.

$$(x_1, y_1) \text{ and } (x_2, y_2) \text{ -----} \rightarrow \frac{y_2 - y_1}{x_2 - x_1}$$

EXAMPLE:



Start with two points from the line

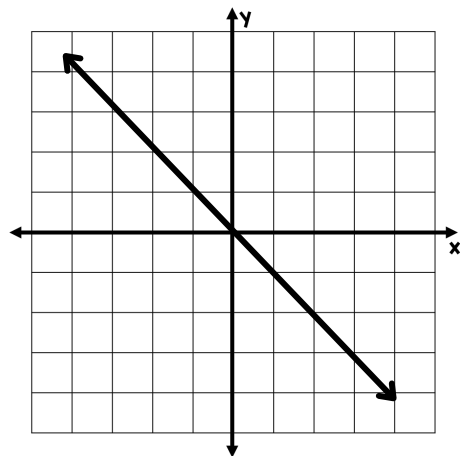
(0, 3) and (-2, 0)

(x_1, y_1) (x_2, y_2)

$$\frac{0 - 3}{-2 - 0} = \frac{-3}{-2} = \frac{3}{2}$$

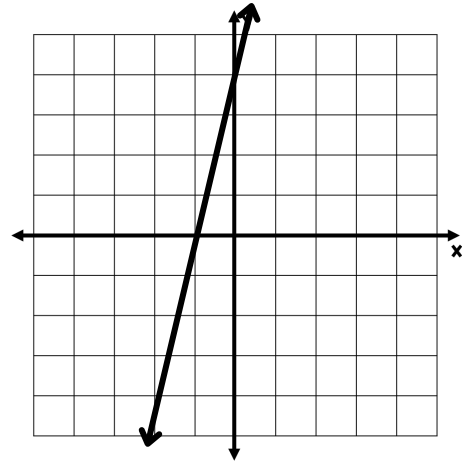
$$\frac{3}{2} = \text{slope}$$

1. What is the slope of the line?

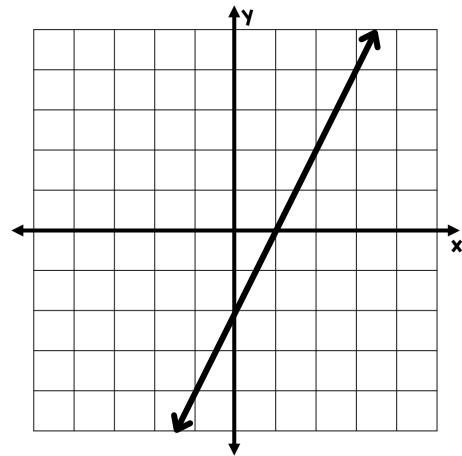


UNDERSTANDING SLOPE

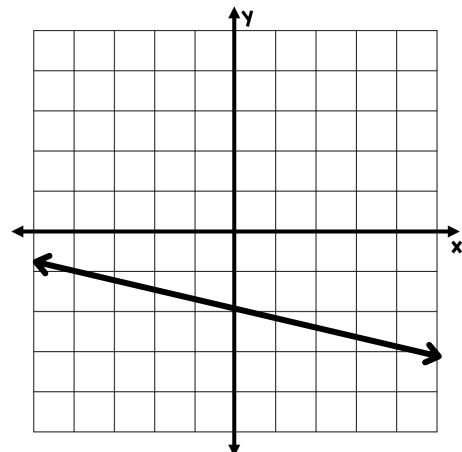
2. What is the slope of the line?



3. What is the slope of the line?



4. What is the slope of the line?



UNDERSTANDING Y INTERCEPT

For any equation of a line: $y = mx + b$

THE Y-intercept is b . This means that whatever number is by itself, is the Y-intercept.

EXAMPLE: $y = 2x + 1$ $b = 1$, the Y-intercept is 1

1) What is the Y-intercept of the line: $y = -3x + 4$

2) What is the Y-intercept of the line: $y = x + 9$

3) What is the Y-intercept of the line: $y = 7x - 7$

4) What is the Y-intercept of the line: $y = -12x$

5) What is the Y-intercept of the line: $y = 6$

BONUS) What is the Y-intercept?

