

Homework

Activity 1

Each of the functions is written in $y = mx + b$ form. Tell the slope and the y -intercept in each function.

- $y = 2x + 3$
 - What is the slope?
 - What is the y -intercept?
- $y = \frac{1}{2}x + 4$
 - What is the slope?
 - What is the y -intercept?
- $y = 3x$
 - What is the slope?
 - What is the y -intercept?
- $y = 4$
 - What is the slope?
 - What is the y -intercept?

Activity 2

Write the equation for each of the functions using $y = mx + b$ form.

- Write the function whose slope is -1 and y -intercept is 5 .
- Write the function whose slope is 0 and y -intercept is 2 .
- Write the function whose slope is 1 and y -intercept is 0 .

Activity 3

Create an x/y table and a graph for each of the functions you wrote in Activity 2.



Homework

Activity 4 • Distributed Practice

Write the general pattern for each of the properties. You are given examples to help you.

1. Additive Identity Property

$$3 + 0 = 3$$

$$-\frac{1}{2} + 0 = -\frac{1}{2}$$

$$2.3 + 0 = 2.3$$

Write the general pattern using the variable m .

2. Multiplicative Inverse (reciprocal) Property

$$\frac{2}{3} \cdot \frac{3}{2} = 1$$

$$\frac{4}{3} \cdot \frac{3}{4} = 1$$

$$\frac{2}{1} \cdot \frac{1}{2} = 1$$

Write the general pattern using the variables a and b .

3. Distributive Property

$$2(x + 5) = 2x + 10$$

$$3(x + 7) = 3x + 21$$

$$4(x + 9) = 4x + 36$$

Write the general pattern using the variables x , y , and z .