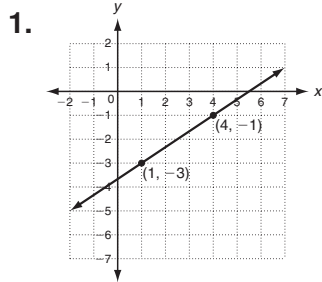
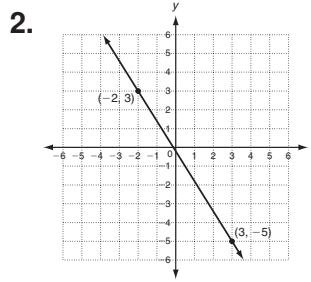


LESSON **Practice C**
5-3 **Slope**

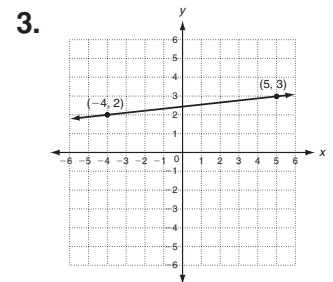
Find the slope of each line.



slope = _____



slope = _____



slope = _____

Find the slope of the line that contains each pair of points.

4. $(2, -5)$ and $(4, 3)$

$m =$ _____

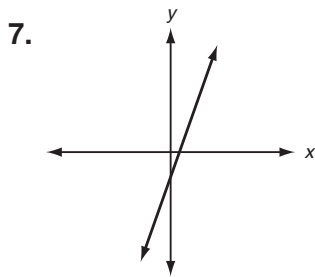
5. $(0, -4)$ and $(7, 1)$

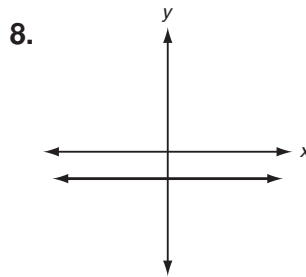
$m =$ _____

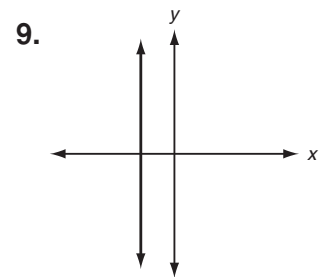
6. $(6, 2)$ and $(-9, -1)$

$m =$ _____

Tell whether the slope of each line is positive, negative, zero, or undefined.







Find the slope of the line described by each equation.

10. $7x - 6y = 42$

11. $5x + 2y = 20$

12. $-2x - 8y = 24$

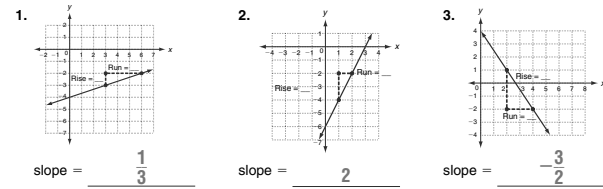
13. $64 - 4y = -16x$

14. $8x = 4y - 1$

15. $y = 6x - 10$

LESSON 5-3 Practice A
Slope

Find the rise and run between each set of points. Then, write the slope of the line.



Find the slope of the line that contains each pair of points.

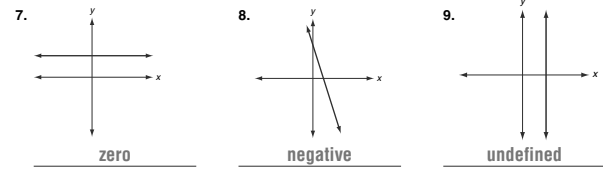
4. (3, 1) and (9, 2) 5. (-2, 3) and (2, -1) 6. (4, 6) and (0, -2)

$$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{2 - 1}{9 - 3} = \frac{1}{6}$$

$$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{-1 - 3}{2 - (-2)} = \frac{-4}{4} = -1$$

$$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{-2 - 6}{0 - 4} = \frac{-8}{-4} = 2$$

Tell whether the slope of each line is positive, negative, zero, or undefined.



Complete the steps to find the slope of the line described by $2x + 5y = 10$.

9. a. Find the x-intercept. b. Find the y-intercept. c. The line contains $(-5, 0)$ and $(0, -2)$. Use the slope formula.

$$\text{Let } y = 0$$

$$2x + 5(0) = -10$$

$$\frac{2x}{2} = \frac{-10}{2}$$

$$x = -5$$

$$\text{Let } x = 0$$

$$2(0) + 5y = -10$$

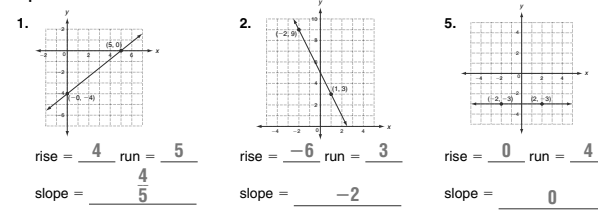
$$\frac{5y}{5} = \frac{-10}{5}$$

$$y = -2$$

$$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{-2 - 0}{0 - (-5)} = \frac{-2}{-5} = \frac{2}{5}$$

LESSON 5-3 Practice B
Slope

Find the rise and run between each set of points. Then, write the slope of the line.



Find the slope of the line that contains each pair of points.

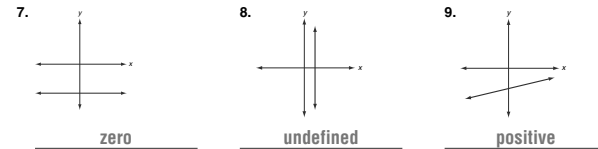
4. (2, 8) and (1, -3) 5. (-4, 0) and (-6, -2) 6. (0, -2) and (4, -7)

$$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{-3 - 8}{1 - 2} = \frac{-11}{-1} = 11$$

$$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{-2 - 0}{-6 - (-4)} = \frac{-2}{-2} = 1$$

$$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{-7 - (-2)}{4 - 0} = \frac{-5}{4}$$

Tell whether the slope of each line is positive, negative, zero, or undefined.



Find the slope of the line described by each equation.

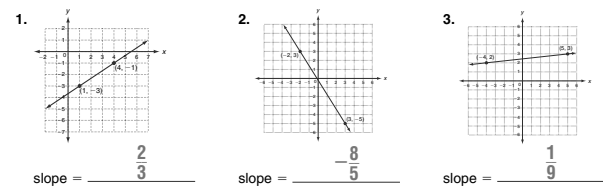
10. $3x + 4y = 24$ 11. $8x = 48 + 3y$

$$\frac{-3}{4}$$

$$\frac{8}{3}$$

LESSON 5-3 Practice C
Slope

Find the slope of each line.



Find the slope of the line that contains each pair of points.

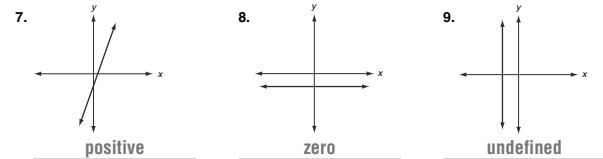
4. (2, -5) and (4, 3) 5. (0, -4) and (7, 1) 6. (6, 2) and (-9, -1)

$$m = 4$$

$$m = \frac{5}{7}$$

$$m = \frac{1}{5}$$

Tell whether the slope of each line is positive, negative, zero, or undefined.



Find the slope of the line described by each equation.

10. $7x - 6y = 42$ 11. $5x + 2y = 20$ 12. $-2x - 8y = 24$

$$\frac{7}{6}$$

$$\frac{-5}{2}$$

$$\frac{-1}{4}$$

13. $64 - 4y = -16x$ 14. $8x = 4y - 1$ 15. $y = 6x - 10$

$$4$$

$$2$$

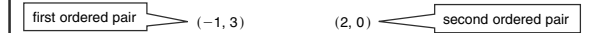
$$6$$

LESSON 5-3 Review for Mastery
Slope

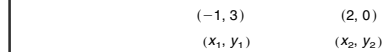
You can find the slope of a line from any two ordered pairs. The ordered pairs can be given to you, or you might need to read them from a table or graph.

Find the slope of the line that contains $(-1, 3)$ and $(2, 0)$.

Step 1: Name the ordered pairs. (It does not matter which is first and which is second.)



Step 2: Label each number in the ordered pairs.



Step 3: Substitute the ordered pairs into the slope formula.

$$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{0 - 3}{2 - (-1)} = \frac{-3}{3} = -1$$

The slope of the line that contains $(-1, 3)$ and $(2, 0)$ is -1 .

Find the slope of each linear relationship.

