

EXAMPLE 3

Geometric Figure Application
 The graph shows the water level in a reservoir at different times. Find the slope of the line segment.

Step 1 Find the slope formula.

$$m = \frac{y_2 - y_1}{x_2 - x_1}$$

$$= \frac{1000 - 0}{20 - 0}$$

$$= \frac{1000}{20}$$

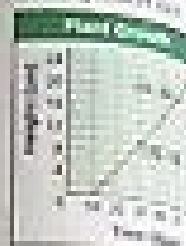
$$= 50$$

Step 2 Find the slope formula.

The reservoir is 1000 feet deep and it takes 20 hours to fill it. The water level rises 50 feet per hour. This means the water level rises 50 feet per hour. The slope of the line is 50.



Find the slope of the line that passes through the points (0, 0) and (20, 1000). The slope is 50.



Find the slope of the line that passes through the points (0, 0) and (20, 1000). The slope is 50.

EXAMPLE 4

Writing Slope from an Equation

Find the slope of the line described by $4x - 3y = 30$.

Step 1 Write the equation.

$$4x - 3y = 30$$

$$4x - 3y = 30 \quad \text{Add } 3y \text{ to both sides.}$$

$$4x = 30 + 3y$$

$$\frac{4x}{4} = \frac{30 + 3y}{4}$$

$$x = \frac{30}{4} + \frac{3y}{4}$$

$$x = \frac{15}{2} + \frac{3}{4}y$$

Step 2 Find the y-intercept.

$$4x - 3y = 30$$

$$4(0) - 3y = 30 \quad \text{Let } x = 0.$$

$$-3y = 30$$

$$\frac{-3y}{-3} = \frac{30}{-3}$$

$$y = -10$$

Step 3 The line passes through (0, -10) and (7.5, 0). Use the slope formula.

$$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{0 - (-10)}{7.5 - 0} = \frac{10}{7.5} = \frac{4}{3}$$



Find the slope of the line described by $2x + 3y = 12$.

4-4

Exercises

THINK AND DISCUSS

- The slope of a line is the difference of the y -coordinates divided by the difference of the x -coordinates. Are any two points on the line?
- Two points on a line define a unique line. If you know the slope and one point, the value of the other coordinate can be found. Is this true?
- GET ORGANIZED** Copy and complete the graphic organizer. In each box, show the line in that box using the given equation.

Graphing Lines

Line 1

Line 2

Line 3

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GUIDED PRACTICE

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

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

Each graph below shows a linear relationship. Find the slope.



x	y
0	25
1	27
2	29
3	31

Find the slope of each line. Then tell what the slope represents.



Find the slope of the line described by each equation.

- $3x + 2y = 18$
- $5x = 100 + 2y$
- $3y = 100 + 5x$

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Raymond A. Serway, John W. Jewett



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