

EXAMPLE 3

Environmental Science Application
The graph shows how much water is in a container at different times. Find the slope of the line. Then tell what the slope represents.

Step 1 Use the slope formula.

$$\begin{aligned} m &= \frac{y_2 - y_1}{x_2 - x_1} \\ &= \frac{2000 - 1000}{20 - 10} \\ &= \frac{1000}{10} = 100 \end{aligned}$$

Step 2 Tell what the slope represents.

In this situation, a representative volume of water used is a representative value in the situation. Interpretation: In units of thousands of cubic feet, water is used at a rate of 10 thousand cubic feet per hour in the previous 10 hours. The slope of the line is 10, which means that the amount of water in the previous 10 hours is decreasing at a rate of 10 thousand cubic feet per hour.



4. The graph shows the height of a plant over a period of days. Find the slope of the line. Then tell what the slope represents.



If you know the equation that describes a line, you can find its slope by using any two ordered pairs on the line. It is often easier to use the ordered pairs that contain the intercepts.

EXAMPLE 4

Finding Slope from an Equation

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

Step 1 Find the x -intercept.

$$4x - 3y = 30$$

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

$$4x = 30$$

$$\frac{4x}{4} = \frac{30}{4}$$

$$x = \frac{15}{2}$$

$$x = 7.5$$

Step 2 Find the y -intercept.

$$4x - 3y = 30$$

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

$$-3y = 30$$

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

$$y = -10$$

$$y = -10$$

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

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



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

THINK AND DISCUSS

- The slope of a line is the difference of the y -values divided by the difference of the x -values for any two points on the line.
- Two points lie on a line. When you substitute their coordinates into the slope formula, the value of the denominator is 0. Describe this line.
- GET ORGANIZED** Copy and complete the graphic organizer. In each box, describe how to find slope using the given method.

Finding Slope

Graph

Equation

Table

4-4

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GUIDED PRACTICE

SEE EXAMPLE 3

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

1. $(1, 4)$ and $(5, 9)$

2. $(2, 7)$ and $(8, 4)$

3. $(-1, -3)$ and $(-9, -7)$

SEE EXAMPLE 3

Each graph or table shows a linear relationship. Find the slope.

4.



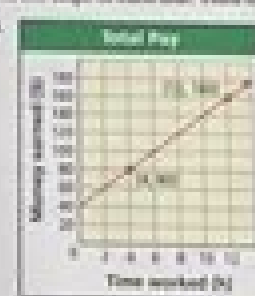
5.

x	y
0	25
2	45
4	65
6	85

SEE EXAMPLE 3

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

6.



7.



SEE EXAMPLE 4

Find the slope of the line described by each equation.

8. $8x + 2y = 50$

9. $5x = 50 - 3y$

10. $3y = 150 + 9x$

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