

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.

$$\begin{aligned} m &= \frac{y_2 - y_1}{x_2 - x_1} \\ &= \frac{2000 - 0}{20 - 0} \\ &= \frac{2000}{20} = 100 \end{aligned}$$

Step 2 Tell what the slope represents.

In this situation, a representative volume of water used is a representative value for 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 process of decreasing. Interpretation: In units of thousands of cubic feet, water is used at a rate of 10 thousand cubic feet per hour in the process of decreasing.



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.

$$\begin{aligned} 4x - 3y &= 30 \\ 4x - 3(0) &= 30 & \text{Let } y = 0. \\ 4x &= 30 \\ \frac{4x}{4} &= \frac{30}{4} \\ x &= \frac{15}{2} \end{aligned}$$

Step 2 Find the y -intercept.

$$\begin{aligned} 4x - 3y &= 30 \\ 4(0) - 3y &= 30 & \text{Let } x = 0. \\ -3y &= 30 \\ \frac{-3y}{-3} &= \frac{30}{-3} \\ y &= -10 \end{aligned}$$

Step 3 The line contains $(\frac{15}{2}, 0)$ and $(0, -10)$. Use the slope formula.

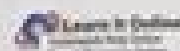
$$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{-10 - 0}{0 - \frac{15}{2}} = \frac{-10}{-\frac{15}{2}} = \frac{4}{3}$$



4. 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 -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
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GUIDED PRACTICE

SEE EXAMPLE 3

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

- $(1, 4)$ and $(5, 9)$
- $(2, 7)$ and $(8, 4)$
- $(-1, -3)$ and $(-8, -7)$

SEE EXAMPLE 3

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



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.



SEE EXAMPLE 4

Find the slope of the line described by each equation.

- $8x + 2y = 50$
- $5x = 50 - 3y$
- $3y = 150 + 9x$

Holt Algebra 1 Lesson 4 Answers

Liyong Dong

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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