EXAMPLE 3 Environmental Science Application

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

Step 1 Use the slope formula.

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

$$= \frac{\text{water} - \text{water}}{\text{day} - \text{day}}$$

$$= \frac{\text{water}}{\text{day}} = -75$$

Step 2 Tell what the slope represents.

In this situation, y represents volume of water and x represents time. So slope represents ____ in terms of ____.

A value of -75 means the amount of water in the reservoir is decreasing/increasing at a rate of 75 thousand cubic feet each hour.

Check It Out! 4. The graph shows the height of a plant over a period of time. 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 pair solutions. It is often easiest to use the ordered pairs that contain the intercepts.

EXAMPLE 4 Finding Slope from an Equation

Find the slope of the line described by $4x - 5y = 30$.

Step 1 Find the x-intercept.

$4x - 5y = 30$

$4x - 5(0) = 30$ Let $y = 0$.

$4x = 30$

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

$x = 7\frac{1}{2}$

Step 2 Find the y-intercept.

$4x - 5y = 30$

$4(0) - 5y = 30$ Let $x = 0$.

$-5y = 30$

$\frac{-5y}{-5} = \frac{30}{-5}$

$y = -6$

Step 3 The line contains $(7\frac{1}{2}, 0)$ and $(0, -6)$. Use the slope formula.

$$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{-6 - 0}{0 - 7\frac{1}{2}} = \frac{-6}{-7\frac{1}{2}} = \frac{4}{5}$$

Check It Out! 6. Find the slope of the line described by $2x + 3y = 12$.

Essential Understanding

THINK AND DISCUSS

8. The slope of a line is the difference of the ____y____ divided by the difference of the ____x____ for any two points on the line.

9. 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.

10. GET ORGANIZED Copy and complete the graphic organizer. In each box, describe how to find slope using the given method.

Finding Slope

From a graph | From a table | From an equation

4-4 Exercises

Learn It Online

GUIDED PRACTICE

SEE EXAMPLE 1 Find the slope of the line that contains each pair of points.

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

SEE EXAMPLE 2 Each graph or table shows a linear relationship. Find the slope.

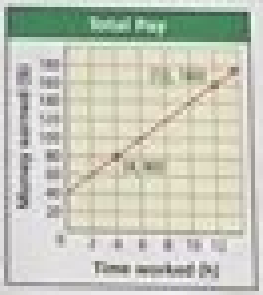
4.

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. $8x + 2y = 96$ 9. $5x = 90 - 9y$ 10. $5y = 150 + 9x$

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