

### EXAMPLE 2

**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 constant volume of water used a representative value in the equation, a representative volume of water used a representative value in the slope equation. Interpretation: An initial amount of 1000 cubic feet of water at 10 minutes is added to the amount of water in the previous 10 minutes to determine a slope of 100 cubic feet of water per 10 minutes, or 10 cubic feet per minute.



4. The graph shows the height of a plane 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 pairs within it. It is often easiest to use the ordered pairs that contain the smallest

### EXAMPLE 3

**Finding Slope from an Equation**

Find the slope of the line described by  $4x - 3y = 20$ .

**Step 1** Find the  $x$ -intercept.

$$\begin{aligned} 4x - 3y &= 20 \\ 4x - 3(0) &= 20 & \text{Let } y = 0. \\ 4x &= 20 \\ \frac{4x}{4} &= \frac{20}{4} \\ x &= 5 \end{aligned}$$

**Step 2** Find the  $y$ -intercept.

$$\begin{aligned} 4x - 3y &= 20 \\ 4(0) - 3y &= 20 & \text{Let } x = 0. \\ -3y &= 20 \\ \frac{-3y}{-3} &= \frac{20}{-3} \\ y &= -\frac{20}{3} \end{aligned}$$

**Step 3** The line contains  $(5, 0)$  and  $(0, -\frac{20}{3})$ . Use the slope formula.

$$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{-\frac{20}{3} - 0}{0 - 5} = \frac{-\frac{20}{3}}{-5} = \frac{4}{3}$$



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
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## 4-4

### Exercises



### GUIDED PRACTICE

#### SEE EXAMPLE 2

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

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

#### 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 3

Find the slope of the line described by each equation.

- $8x + 2y = 36$
- $5x = 30 - 3y$
- $3y = 150 + 9x$

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