

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 for slope represents "temperature." In units of thousands of cubic feet, a slope of 100 means the amount of water in the pressure is decreasing 100,000 cubic feet in a year of 10,000 cubic feet from each hour.



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 on the line. It is often easiest to use the ordered pairs that contain the intercepts.

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.

$$m = \frac{\frac{20}{3} - 0}{0 - 5} = -\frac{4}{3}$$



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

THINK AND DISCUSS

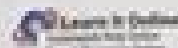
- The slope of a line is the difference of the y -values divided by the difference of the x -values for any two points on the line.
 - Two points lie on a line. When you substitute their coordinates into the slope formula, the value of the denominator is 0. Describe this line.
- GET ORGANIZED** Copy 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.



2.

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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S Ashworth



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