

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 is represented by the slope represents "temperature" in units of thousands of cubic feet.

A slope of 100 means the amount of water in the reservoir is decreasing 100,000 cubic feet for every 10,000 cubic feet that is lost.



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 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 -coordinates divided by the difference of the x -coordinates 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 $(5, 0)$
- $(2, 7)$ 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.

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

Chapter 7 Holt Algebra 1

G Orfield



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Table of Contents Chapter 7 Holt Algebra 1

1. Understanding the eBook Chapter 7 Holt Algebra 1
 - The Rise of Digital Reading Chapter 7 Holt Algebra 1
 - Advantages of eBooks Over Traditional Books
2. Identifying Chapter 7 Holt Algebra 1
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Chapter 7 Holt Algebra 1
 - User-Friendly Interface
4. Exploring eBook Recommendations from Chapter 7 Holt Algebra 1
 - Personalized Recommendations
 - Chapter 7 Holt Algebra 1 User Reviews and Ratings
 - Chapter 7 Holt Algebra 1 and Bestseller Lists

-
5. Accessing Chapter 7 Holt Algebra 1 Free and Paid eBooks
 - Chapter 7 Holt Algebra 1 Public Domain eBooks
 - Chapter 7 Holt Algebra 1 eBook Subscription Services
 - Chapter 7 Holt Algebra 1 Budget-Friendly Options
 6. Navigating Chapter 7 Holt Algebra 1 eBook Formats
 - ePub, PDF, MOBI, and More
 - Chapter 7 Holt Algebra 1 Compatibility with Devices
 - Chapter 7 Holt Algebra 1 Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Chapter 7 Holt Algebra 1
 - Highlighting and Note-Taking Chapter 7 Holt Algebra 1
 - Interactive Elements Chapter 7 Holt Algebra 1
 8. Staying Engaged with Chapter 7 Holt Algebra 1
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Chapter 7 Holt Algebra 1
 9. Balancing eBooks and Physical Books Chapter 7 Holt Algebra 1
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Chapter 7 Holt Algebra 1
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Chapter 7 Holt Algebra 1
 - Setting Reading Goals Chapter 7 Holt Algebra 1
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Chapter 7 Holt Algebra 1
 - Fact-Checking eBook Content of Chapter 7 Holt Algebra 1
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning

-
- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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