

# EXAMPLE 3

**Geometric Figure Application**  
 The graph shows the water level in a reservoir at different times. Find the slope of the line segment.

**Step 1** Find the slope formula.

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

$$= \frac{1000 - 0}{20 - 0}$$

$$= \frac{1000}{20}$$

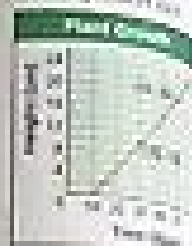
$$= 50$$

**Step 2** Find the slope formula.

The reservoir is a geometric figure. The water level is represented by the y-axis. The time is represented by the x-axis. The slope of the line segment is 50. This means the water level is increasing at a rate of 50 feet per hour.



The graph shows the height of a plant over a period of time. Find the slope of the line. What is the slope equation?



Find the slope of the line that passes through the points (0, 0) and (20, 20). The slope is 1. The equation of the line is  $y = x$ .

# EXAMPLE 4

**Finding Slope from an Equation**

Find the slope of the line described by  $4x - 3y = 36$ .

**Step 1** Write the equation in slope-intercept form.

$$4x - 3y = 36$$

$$-3y = -4x + 36$$

$$y = \frac{4}{3}x - 12$$

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

$$4x - 3y = 36$$

$$4(0) - 3y = 36$$

$$-3y = 36$$

$$y = -12$$

**Step 3** The line passes through (0, -12) and (9, 0). Use the slope formula.

$$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{0 - (-12)}{9 - 0} = \frac{12}{9} = \frac{4}{3}$$



The slope of the line described by  $4x - 3y = 36$  is  $\frac{4}{3}$ .

# THINK AND DISCUSS

- The slope of a line is the difference of the  $y$ -coordinates divided by the difference of the  $x$ -coordinates. Are any two points on the line?
- Two points on a line define a unique line. If you know the slope and one point, can you find the equation of the line?
- GET ORGANIZED** Copy and complete the graphic organizer. In each box, show the line in that box using the given equation.

Finding Slope		
Equation	Point	Line
$y = 2x + 3$	$(1, 5)$	$y = -x + 2$

# 4-4

# Exercises

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# GUIDED PRACTICE

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

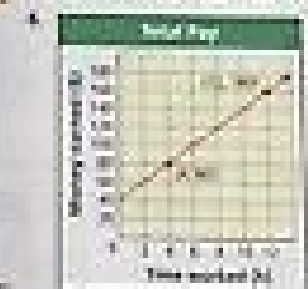
- (1, 3) and (4, 7)
- (-2, 5) and (3, 1)
- (-1, -2) and (2, -5)

Each graph below shows a linear relationship. Find the slope.



x	y
0	2
1	1
2	0
3	-1

Find the slope of each line. Then tell what the slope represents.



Find the slope of the line described by each equation.

- $3x - 2y = 12$
- $5x + 10y = 20$
- $2y = 30x + 15$

# Common Core Algebra Student Guide Answers

**Alan Axelrod, Walton Rawls, Harry  
Oster, James Holtje**



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## **Table of Contents Common Core Algebra Student Guide Answers**

1. Understanding the eBook Common Core Algebra Student Guide Answers
  - The Rise of Digital Reading Common Core Algebra Student Guide Answers
  - Advantages of eBooks Over Traditional Books
2. Identifying Common Core Algebra Student Guide Answers
  - 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 Common Core Algebra Student Guide Answers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Common Core Algebra Student Guide Answers
  - Personalized Recommendations
  - Common Core Algebra Student Guide Answers User Reviews and Ratings
  - Common Core Algebra Student Guide Answers and Bestseller Lists
5. Accessing Common Core Algebra Student Guide Answers Free and Paid eBooks
  - Common Core Algebra Student Guide Answers Public Domain eBooks
  - Common Core Algebra Student Guide Answers eBook Subscription Services
  - Common Core Algebra Student Guide Answers Budget-Friendly Options



6. Navigating Common Core Algebra Student Guide Answers eBook Formats
  - ePub, PDF, MOBI, and More
  - Common Core Algebra Student Guide Answers Compatibility with Devices
  - Common Core Algebra Student Guide Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Common Core Algebra Student Guide Answers
  - Highlighting and Note-Taking Common Core Algebra Student Guide Answers
  - Interactive Elements Common Core Algebra Student Guide Answers
8. Staying Engaged with Common Core Algebra Student Guide Answers
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Common Core Algebra Student Guide Answers
9. Balancing eBooks and Physical Books Common Core Algebra Student Guide Answers
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Common Core Algebra Student Guide Answers
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Common Core Algebra Student Guide Answers
  - Setting Reading Goals Common Core Algebra Student Guide Answers
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Common Core Algebra Student Guide Answers
  - Fact-Checking eBook Content of Common Core Algebra Student Guide Answers
  - 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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