

1.3 Reteach

Key Idea

Writing an Equation of a Line

Given slope m and y -intercept b

Use slope-intercept form:

$$y = mx + b$$

Given slope m and a point (x_1, y_1)

Use point-slope form:

$$y - y_1 = m(x - x_1)$$

Given points (x_1, y_1) and (x_2, y_2)

First use the slope formula to find m . Then use point-slope form with either given point.

EXAMPLE Writing a Linear Equation from a Graph

The graph shows the height of a tree. Write an equation of the line and interpret the slope. After how many years will the tree be 18 feet tall?

SOLUTION

From the graph, you can see that the slope is $m = \frac{12}{8} = 1.5$ and the y -intercept is $b = 0$. Use slope-intercept form to write an equation of the line.

$$\begin{aligned} y &= mx + b && \text{Slope-intercept form} \\ &= 1.5x + 0 && \text{Substitute 1.5 for } m \text{ and 0 for } b. \end{aligned}$$

The equation is $y = 1.5x$. The slope indicates that the tree grows 1.5 feet per year. Use the equation to find how long it takes the tree to be 18 feet tall.

$$\begin{aligned} 18 &= 1.5x && \text{Substitute 18 for } y. \\ 12 &= x && \text{Divide each side by 1.5.} \end{aligned}$$

► After 12 years, the tree will be 18 feet tall.



Key Idea

Finding a Line of Fit

Step 1 Make a scatter plot of the data.

Step 2 Draw the line that most closely appears to follow the trend given by the data points. There should be about as many points above the line as below it.

Step 3 Choose two points on the line and estimate the coordinates of each point. These points do not have to be original data points.

Step 4 Write an equation of the line that passes through the two points from Step 3. This equation is a model for the data.

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RJ Shavelson



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Table of Contents Holt Algebra 2 Lesson 3 Reteach

1. Understanding the eBook Holt Algebra 2 Lesson 3 Reteach
 - The Rise of Digital Reading Holt Algebra 2 Lesson 3 Reteach
 - Advantages of eBooks Over Traditional Books
2. Identifying Holt Algebra 2 Lesson 3 Reteach
 - 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 Holt Algebra 2 Lesson 3 Reteach
 - User-Friendly Interface
4. Exploring eBook Recommendations from Holt Algebra 2 Lesson 3 Reteach

- Personalized Recommendations
 - Holt Algebra 2 Lesson 3 Reteach User Reviews and Ratings
 - Holt Algebra 2 Lesson 3 Reteach and Bestseller Lists
5. Accessing Holt Algebra 2 Lesson 3 Reteach Free and Paid eBooks
 - Holt Algebra 2 Lesson 3 Reteach Public Domain eBooks
 - Holt Algebra 2 Lesson 3 Reteach eBook Subscription Services
 - Holt Algebra 2 Lesson 3 Reteach Budget-Friendly Options
 6. Navigating Holt Algebra 2 Lesson 3 Reteach eBook Formats
 - ePub, PDF, MOBI, and More
 - Holt Algebra 2 Lesson 3 Reteach Compatibility with Devices
 - Holt Algebra 2 Lesson 3 Reteach Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Holt Algebra 2 Lesson 3 Reteach
 - Highlighting and Note-Taking Holt Algebra 2 Lesson 3 Reteach
 - Interactive Elements Holt Algebra 2 Lesson 3 Reteach
 8. Staying Engaged with Holt Algebra 2 Lesson 3 Reteach
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Holt Algebra 2 Lesson 3 Reteach
 9. Balancing eBooks and Physical Books Holt Algebra 2 Lesson 3 Reteach
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Holt Algebra 2 Lesson 3 Reteach
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Holt Algebra 2 Lesson 3 Reteach
 - Setting Reading Goals Holt Algebra 2 Lesson 3 Reteach
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Holt Algebra 2 Lesson 3 Reteach

- Fact-Checking eBook Content of Holt Algebra 2 Lesson 3 Reteach
 - 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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