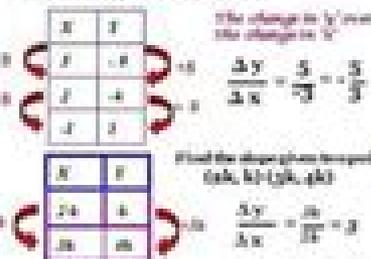


# ALGEBRA I END OF COURSE STUDY GUIDE

## ALGEBRA I End of Course STUDY GUIDE

**Slope**  $y = mx + b$   
*m* is the slope  
*b* is the y-axis intercept

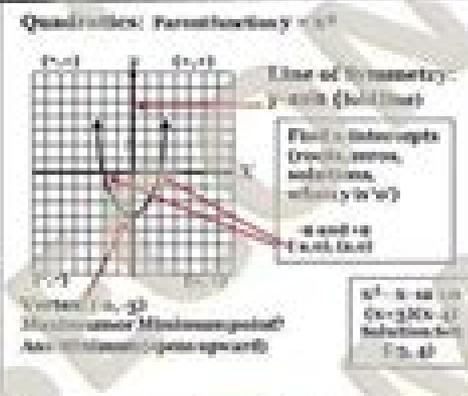
Find Slope given a table:



Find Slope given a graph:



Linear Functions:	Possible representations:
Save type gas (1 week)	1 year
Silly string cost \$4.25 per can	1.425
Charged \$4.25 every minute	4.25 cents
Earned \$1.25 per hour	\$1.25/hour
Car rental costs \$30 plus \$15 per day	\$45 per day
Represented by half-pipe in a competition	$x = 15x$
One person every 15 minutes, 1 = hours	4 per hour
Earns 2.75% commission on sales	2.75% per sale



**Exponent Basics**  $x^a \cdot x^b = x^{a+b}$   $x^a \div x^b = x^{a-b}$   $x^0 = 1$

**Add Exponents & multiply numbers**

$$x^2 \cdot x^3 = x^5$$

$$x^3 \cdot x^2 = 2x \cdot 2x \cdot 2x \cdot x^2 = 8x^5$$

$$3x \cdot 2x^2 = 6x^3$$

$$x^2 \cdot x^3 = x^2 \cdot x^2 \cdot x^2 = x^6$$

$$(3 \text{ abc})^2 = 9 \text{ a}^2 \text{ b}^2 \text{ c}^2$$

$$4 \text{ a}^2 \text{ b}^2 \text{ c}^2 + 3 \text{ a}^2 \text{ b}^2 \text{ c}^2 = 7 \text{ a}^2 \text{ b}^2 \text{ c}^2$$

$$3 \text{ abc}^2 + 4 \text{ abc}^2 = 7 \text{ abc}^2$$

**Subtract Exponents & Divide numbers**

$$\frac{x^5}{x^2} = x^{5-2} = x^3$$

$$\frac{27x^3y^3}{3x^2y^2} = \frac{9y}{x}$$

$$\frac{(-6a^2b^3)(2a^2b^3)}{-18a^2b^3c} = \frac{-12a^4b^6}{-18a^2b^3c} = \frac{2a^2b^3}{3c}$$

Independent	Dependent
$x$	$f(x)$
Domain	Range
$2x - 4$	$y =$
$8h$	$V =$
$ax^2$	$A =$
Number of items	Total cost \$
Number of hours worked	Amount of money \$ earned

**Solve for 'y'**

$$3x + 4y = 24$$

$$-3x \quad -3x$$

$$4y = -3x + 24$$

$$\frac{4y}{4} = \frac{-3x + 24}{4}$$

$$y = -\frac{3}{4}x + 6$$

Steps:

- Add positive or negative to opposite side of  $y$ .
- Cancel out  $y$  then bring down carefully.
- Divide by the number to front of  $y$ .
- Rewrite.

## Distributive property

$$4(x + 3) = 4x + 12$$

$$-3x(7x - 4) + 6x = (-21x^2 + 12x) + 6x$$

$$= -21x^2 + 12x + 6x - 12 = -21x^2 + 18x - 12$$

$$-21x^2 + 18x + 12 = 12x + 6x - 12$$

$$3x^2 + 18x - 12$$

$$\frac{2}{5} (15a^2b - 40ab^2) - \frac{2}{3} (30ab^2 - 6a^2b)$$

$$6a^2b - 16ab^2 - 20ab^2 + 4a^2b$$

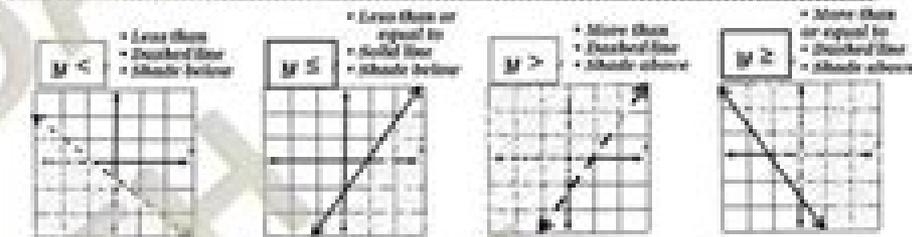
$$10a^2b - 26ab^2$$

Combine Like Terms  
 Same Variables with the Same Exponents

Use distributive property:  $(a+b)(c+d) = ac + bc + ad + bd$

$(x + 4)(2x^2)$	$2x^3 + 8x^2$
$(x + 4)(x)$	$x^2 + 4x$
$(x + 4)(1)$	$x + 4$

Answer:  $2x^3 + 9x^2 + 5x + 4$



## Transformations of Quadratic Functions

**Vertical Shift**  
 Replacing  $x^2$  with  $x^2 + c$  results in shift of  $c$  units **up**.  
 Replacing  $x^2$  with  $x^2 - c$  results in shift of  $c$  units **down**.



**Horizontal Compression**  
 Changing  $x^2$  to  $(\frac{1}{2}x)^2$  compresses the parabola horizontally. It is **NARROWER**.



# Algebra 1 Study Guide And Intervention Answers

**Rachel S Tattersall**



**Algebra 1 Study Guide And Intervention Answers:**

## **Algebra 1 Study Guide And Intervention Answers** Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Algebra 1 Study Guide And Intervention Answers**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we will delve to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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### **Table of Contents Algebra 1 Study Guide And Intervention Answers**

1. Understanding the eBook Algebra 1 Study Guide And Intervention Answers
  - The Rise of Digital Reading Algebra 1 Study Guide And Intervention Answers
  - Advantages of eBooks Over Traditional Books
2. Identifying Algebra 1 Study Guide And Intervention 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 Algebra 1 Study Guide And Intervention Answers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Algebra 1 Study Guide And Intervention Answers
  - Personalized Recommendations
  - Algebra 1 Study Guide And Intervention Answers User Reviews and Ratings
  - Algebra 1 Study Guide And Intervention Answers and Bestseller Lists

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