

# ALGEBRA I END OF COURSE STUDY GUIDE

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**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 (weekly)	gas price
Silly string cost \$4.99 per can	cost of gas
Charged \$4.99 every minute	cost of gas
Earl's cell phone bill	cost of gas
Car rental costs \$4.99 plus tax every	cost of gas
Represented by half price on a credit card	cost of gas
One person every 4 minutes, 4 = hours	cost of gas
Earns 2.5% commission on sales	cost of gas

Quadratics: Parabolic function  $y = ax^2 + bx + c$



Exponent Basics:  $x^a \cdot x^b = x^{a+b}$ ,  $x^a \div x^b = x^{a-b}$ ,  $x^a = x^{a/1}$

Add Exponents & multiply numbers

$$x \cdot x = x^2, x^2 \cdot x^2 = x^4, x^3 \cdot x^3 = x^6, 3x \cdot 2x^2 = 6x^3$$

$$x^2 \cdot x^2 = x^4, x^3 \cdot x^3 = x^6, (3x^2)^2 = 9x^4, (2x^3)^2 = 4x^6$$

$$4x^2 \cdot x^3 = 4x^5, (3x^2)^2 = 9x^4, (2x^3)^2 = 4x^6$$

Subtract Exponents & Divide numbers

$$\frac{x^5}{x^2} = x^3, \frac{27x^3y^2}{3x^2y^2} = 9x$$

$$\frac{(-6x^2y^3)(2x^2y^3)}{-18x^2y^3} = \frac{-12x^4y^6}{-18x^2y^3} = \frac{2x^2y^3}{3}$$

Solve for 'y'

$$3x + 4y = 24$$

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

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

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

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Distributive property

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

$$-3x(7x - 4) + 6x = (-21x^2 + 12x) + 6x = -21x^2 + 18x$$

$$\frac{2}{5}(15ab^2 - 40ab^2) - \frac{2}{3}(32ab^2 - 6ab^2) = 6ab^2 - 24ab^2 - 22ab^2 + 4ab^2 = -36ab^2$$

Combine Like Terms  
 Same Variables with the Same Exponents

Answer:  $12x^2 + 18x + 12$



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.

Changing  $x^2$  to  $(2x)^2$  stretches the parabola horizontally.

NARROWER

Horizontal Stretch

Changing  $x^2$  to  $(\frac{1}{2}x)^2$  stretches the parabola horizontally.

Changing  $x^2$  to  $(2x)^2$  compresses the parabola horizontally.

WIDER

# Algebra Keystone Study Guide

**JL Elias**



## **Algebra Keystone Study Guide:**

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### **Table of Contents Algebra Keystone Study Guide**

1. Understanding the eBook Algebra Keystone Study Guide
  - The Rise of Digital Reading Algebra Keystone Study Guide
  - Advantages of eBooks Over Traditional Books
2. Identifying Algebra Keystone Study Guide
  - 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 Keystone Study Guide
  - User-Friendly Interface
4. Exploring eBook Recommendations from Algebra Keystone Study Guide

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

- Fact-Checking eBook Content of Algebra Keystone Study Guide
  - 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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