

# ALGEBRA I FINAL EXAM

Directions: Choose the best answer for each question.

1. Find the difference of the polynomials.

$$(3x^2 - 2xy + y^2) - (-5x^2 + 6xy - y^2)$$

- a.  $2x^2 - 3xy$
- b.  $8x^2 - 11xy$
- c.  $2x^2 - 3xy + 2y$
- d.  $8x^2 - 8xy + 2y^2$

3. Find the product.

$$(5x - 3y)(6x + y)$$

- a.  $30x^2 + 23xy + 3y^2$
- b.  $30x^2 - 13xy - 3y^2$
- c.  $35x - xy - 4y^2$
- d.  $15x^2 - 23xy - 3y^2$

5. What property is represented below?

$$6 \cdot (3 \cdot 2) = (3 \cdot 2) \cdot 6$$

- a. commutative property
- b. identity property
- c. inverse property
- d. associative property

7. Find the roots of the quadratic function.

$$f(x) = 6x^2 - 5x - 2$$

- a.  $x = 6; x = -2$
- b.  $x = \frac{5 \pm \sqrt{73}}{2}$
- c.  $x = 1 \pm \sqrt{73}$
- d.  $x = \frac{5 \pm \sqrt{73}}{12}$

2. Which inequality best represents the graph?

- a.  $y < \frac{2}{3}x + 1$
- b.  $y \leq \frac{2}{3}x + 1$
- c.  $y \geq \frac{2}{3}x + 1$
- d.  $y < -\frac{2}{3}x + 1$



4. Jeffrey bought a collectable baseball card for \$12. If the value of the card appreciated by 9.4% each year, how much will the card be worth in 7 years?

- a. \$22.51
- b. \$112.80
- c. \$1,241.06
- d. \$39.27

6. Evaluate the expression when  $x = 2$  and  $y = -3$ .

$$3y^2 - 2(5x + 3) - 1$$

- a. 0
- b. -3
- c. 10
- d. -4

8. Find the solution to the system of linear equations below.

$$\begin{aligned} 6x - 5y &= 1 \\ y &= 2x - 1 \end{aligned}$$

- a. (-1, 3)
- b. (1, 1)
- c. (1, 2)
- d. (0, 2)

# 2nd Semester Algebra 1 Review Test

**Jicheng Xie**

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## **Table of Contents 2nd Semester Algebra 1 Review Test**

1. Understanding the eBook 2nd Semester Algebra 1 Review Test
  - The Rise of Digital Reading 2nd Semester Algebra 1 Review Test
  - Advantages of eBooks Over Traditional Books
2. Identifying 2nd Semester Algebra 1 Review Test
  - 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 2nd Semester Algebra 1 Review Test
  - User-Friendly Interface
4. Exploring eBook Recommendations from 2nd Semester Algebra 1 Review Test
  - Personalized Recommendations
  - 2nd Semester Algebra 1 Review Test User Reviews and Ratings
  - 2nd Semester Algebra 1 Review Test and Bestseller Lists
5. Accessing 2nd Semester Algebra 1 Review Test Free and Paid eBooks
  - 2nd Semester Algebra 1 Review Test Public Domain eBooks
  - 2nd Semester Algebra 1 Review Test eBook Subscription Services

- 2nd Semester Algebra 1 Review Test Budget-Friendly Options
- 6. Navigating 2nd Semester Algebra 1 Review Test eBook Formats
  - ePUB, PDF, MOBI, and More
  - 2nd Semester Algebra 1 Review Test Compatibility with Devices
  - 2nd Semester Algebra 1 Review Test Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of 2nd Semester Algebra 1 Review Test
  - Highlighting and Note-Taking 2nd Semester Algebra 1 Review Test
  - Interactive Elements 2nd Semester Algebra 1 Review Test
- 8. Staying Engaged with 2nd Semester Algebra 1 Review Test
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers 2nd Semester Algebra 1 Review Test
- 9. Balancing eBooks and Physical Books 2nd Semester Algebra 1 Review Test
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection 2nd Semester Algebra 1 Review Test
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine 2nd Semester Algebra 1 Review Test
  - Setting Reading Goals 2nd Semester Algebra 1 Review Test
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of 2nd Semester Algebra 1 Review Test
  - Fact-Checking eBook Content of 2nd Semester Algebra 1 Review Test
  - 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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