# ALGEBRA I FINAL EXAM

Directions: Choose the best answer for each question.

I. 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.  $8x^2 8xy + 2y^2$

- 2. Which inequality best represents the graph?
- a.  $y < \frac{2}{3}x + 1$
- b.  $y \le \frac{3}{2}x + 1$
- c.  $y \ge \frac{2}{3}x + 1$
- d.  $y < -\frac{3}{2}x + 1$



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.  $15x^2 23xy 3y^2$

- 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
- ь. \$112.80
- c. \$1,241.06
- d. \$39.27

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

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

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

- a. 0
- Ь. -3
- c. 10
- d. -4

Find the roots of the quadratic function.

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

- a. x = 6; x = -2
- b.  $x = \frac{5 \pm \sqrt{13}}{}$
- c.  $x = 1 \pm \sqrt{73}$
- d.  $x = \frac{5 \pm \sqrt{73}}{12}$

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

$$6x - 5y = 1$$
$$y = 2x - 1$$

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

# <u>Algebra 1 Semester 2 Exam Answer Guide</u>

**Léo Pomar** 

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#### **Table of Contents Algebra 1 Semester 2 Exam Answer Guide**

- 1. Understanding the eBook Algebra 1 Semester 2 Exam Answer Guide
  - The Rise of Digital Reading Algebra 1 Semester 2 Exam Answer Guide
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Algebra 1 Semester 2 Exam Answer Guide
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - $\circ\,$  Features to Look for in an Algebra 1 Semester 2 Exam Answer Guide
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Algebra 1 Semester 2 Exam Answer Guide
  - Personalized Recommendations
  - $\circ$  Algebra 1 Semester 2 Exam Answer Guide User Reviews and Ratings
  - Algebra 1 Semester 2 Exam Answer Guide and Bestseller Lists
- 5. Accessing Algebra 1 Semester 2 Exam Answer Guide Free and Paid eBooks
  - Algebra 1 Semester 2 Exam Answer Guide Public Domain eBooks
  - Algebra 1 Semester 2 Exam Answer Guide eBook Subscription Services
  - Algebra 1 Semester 2 Exam Answer Guide Budget-Friendly Options

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