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. $x = \frac{5 \pm \sqrt{13}}{2}$
- 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)
- Ь. (1, 1)
- c. (l, 2)
- d. (0, 2)

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Reza Nazari, Ava Ross

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Table of Contents 14 Algebra 1 Prep

- 1. Understanding the eBook 14 Algebra 1 Prep
 - The Rise of Digital Reading 14 Algebra 1 Prep
 - Advantages of eBooks Over Traditional Books
- 2. Identifying 14 Algebra 1 Prep
 - 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 14 Algebra 1 Prep
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from 14 Algebra 1 Prep
 - Personalized Recommendations
 - 14 Algebra 1 Prep User Reviews and Ratings
 - 14 Algebra 1 Prep and Bestseller Lists
- 5. Accessing 14 Algebra 1 Prep Free and Paid eBooks
 - 14 Algebra 1 Prep Public Domain eBooks
 - 14 Algebra 1 Prep eBook Subscription Services
 - 14 Algebra 1 Prep Budget-Friendly Options

- 6. Navigating 14 Algebra 1 Prep eBook Formats
 - o ePub, PDF, MOBI, and More
 - 14 Algebra 1 Prep Compatibility with Devices
 - 14 Algebra 1 Prep Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of 14 Algebra 1 Prep
 - Highlighting and Note-Taking 14 Algebra 1 Prep
 - o Interactive Elements 14 Algebra 1 Prep
- 8. Staying Engaged with 14 Algebra 1 Prep
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers 14 Algebra 1 Prep
- 9. Balancing eBooks and Physical Books 14 Algebra 1 Prep
 - Benefits of a Digital Library
 - o Creating a Diverse Reading Collection 14 Algebra 1 Prep
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine 14 Algebra 1 Prep
 - Setting Reading Goals 14 Algebra 1 Prep
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of 14 Algebra 1 Prep
 - Fact-Checking eBook Content of 14 Algebra 1 Prep
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements

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