

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

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. $y < -\frac{3}{2}x + 1$



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
 b. \$12.80
 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
 b. -3
 c. 10
 d. -4

7. Find the roots of the quadratic function.

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

a. $x = 6; x = -2$
 b. $x = \frac{5 \pm \sqrt{13}}{2}$
 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.

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

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

Algebra 1 Lesson 9 7 Practice Answers

Patrick Vollmar



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Table of Contents Algebra 1 Lesson 9 7 Practice Answers

1. Understanding the eBook Algebra 1 Lesson 9 7 Practice Answers
 - The Rise of Digital Reading Algebra 1 Lesson 9 7 Practice Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Algebra 1 Lesson 9 7 Practice 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 Lesson 9 7 Practice Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Algebra 1 Lesson 9 7 Practice Answers
 - Personalized Recommendations
 - Algebra 1 Lesson 9 7 Practice Answers User Reviews and Ratings
 - Algebra 1 Lesson 9 7 Practice Answers and Bestseller Lists
5. Accessing Algebra 1 Lesson 9 7 Practice Answers Free and Paid eBooks

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