

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

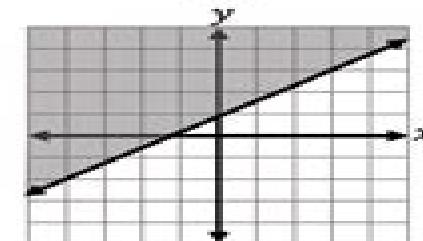
7. Find the roots of the quadratic function.

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

- 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)

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University of Chicago

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Essential Skills for Algebra Evelyn D. Bell, Viggo P. Hansen, Robert J. Wisner, 1987 This book presents a problem oriented straightforward review of the concepts and skills of beginning algebra. Each chapter provides two to four pages of explanation with numerous teaching examples followed by the same number of pages of problems. Avoiding cumbersome new math terminology the book sticks to clear and concise descriptions. It features problems that parallel chapter examples presented on perforated pages so they can be handed in. Each chapter begins with a pretest to identify potential areas of weakness and ends each chapter with a post test to identify areas that require further study. Concluding each chapter with a summary and a section of review exercises it also provides the answers to the odd numbered problems along with a glossary of key terms.

Elementary Algebra Vivian Shaw Groza, 1975 **Algebra Programmed** Robert H. Alwin, Robert D.

Hackworth, 1987 **Job Corps GED Competencies Program Guide** United States. Employment and Training

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Lewis, Vera Goetz Smyth, 1982 Basic Algebra Virginia Lee, 1976 Algebra 1 John H. Saxon, 1997 **Il Te Test Prep**

Gr2 Math 04 HSP, 2005-03 **Annual Register** University of Chicago, 1898 **Resources in Education**, 1979

Register of the University of California University of California (1868-1952), 1898 Bulletin University of California

(1868-1952), 1892 *Junior College Journal* Walter Crosby Eells, 1971 Includes Junior college directory formerly Directory of

the junior college 1931 1945 **Johns Hopkins University Circulars** Johns Hopkins University, 1931 El-Hi Textbooks

& Serials in Print, 2003, 2003 **Register ...** University of California, Berkeley, 1898 Press Summary - Illinois

Information Service Illinois Information Service, 1999 **The Effectiveness of Adjunct Auto-instruction** John Ross

Kinzer, Dean Amory Worcester, 1965 Resources in Education, 1993

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Table of Contents Algebra 1a Unit 5 Post Test

1. Understanding the eBook Algebra 1a Unit 5 Post Test
 - The Rise of Digital Reading Algebra 1a Unit 5 Post Test
 - Advantages of eBooks Over Traditional Books
2. Identifying Algebra 1a Unit 5 Post 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 Algebra 1a Unit 5 Post Test
 - User-Friendly Interface
4. Exploring eBook Recommendations from Algebra 1a Unit 5 Post Test
 - Personalized Recommendations
 - Algebra 1a Unit 5 Post Test User Reviews and Ratings
 - Algebra 1a Unit 5 Post Test and Bestseller Lists
5. Accessing Algebra 1a Unit 5 Post Test Free and Paid eBooks
 - Algebra 1a Unit 5 Post Test Public Domain eBooks
 - Algebra 1a Unit 5 Post Test eBook Subscription Services
 - Algebra 1a Unit 5 Post Test Budget-Friendly Options
6. Navigating Algebra 1a Unit 5 Post Test eBook Formats
 - ePub, PDF, MOBI, and More
 - Algebra 1a Unit 5 Post Test Compatibility with Devices
 - Algebra 1a Unit 5 Post Test Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Algebra 1a Unit 5 Post Test
 - Highlighting and Note-Taking Algebra 1a Unit 5 Post Test
 - Interactive Elements Algebra 1a Unit 5 Post Test
8. Staying Engaged with Algebra 1a Unit 5 Post Test

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Algebra 1a Unit 5 Post Test

9. Balancing eBooks and Physical Books Algebra 1a Unit 5 Post Test

- Benefits of a Digital Library
- Creating a Diverse Reading Collection Algebra 1a Unit 5 Post Test

10. Overcoming Reading Challenges

- Dealing with Digital Eye Strain
- Minimizing Distractions
- Managing Screen Time

11. Cultivating a Reading Routine Algebra 1a Unit 5 Post Test

- Setting Reading Goals Algebra 1a Unit 5 Post Test
- Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Algebra 1a Unit 5 Post Test

- Fact-Checking eBook Content of Algebra 1a Unit 5 Post 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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