

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

2. Which inequality best represents the graph?

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



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. $(0, 2)$

Algebra 1a Unit 5 Post Test

University of Chicago

A red circular graphic with a gradient, appearing as a partial circle or a thick arc, located to the right of the University of Chicago text.

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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 Administration, 1987 Tests for Advanced Algebra Thomas J. McHale, Paul T. Witzke, 1974 **Basic Algebra** Larry 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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