

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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Essential

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Shadow Education as Worldwide Curriculum Studies Young Chun Kim,Jung-Hoon Jung,2019-02-21 This book theorizes shadow education as a new component of curriculum expanding the concept of curriculum to include this type of learning Curriculum scholars and theorists have largely disregarded shadow education as a valid topic of scholarly attention despite its massive growth worldwide But shadow education has become a global phenomenon with ever increasing numbers of student participants it complements school based curricula in many cases going beyond Thus Jung and Kim argue that shadow education requires rigorous analysis by curriculum studies scholars This volume analyzes the state and importance of shadow education in countries around the world its representative forms and industries private tutoring institutes home visit private tutoring Internet based private tutoring subscribed learning programs after school programs its characteristic forms in terms of curriculum and its roles in student learning It also explores various features of shadow education based on an eight year ethnographic study in South Korea

Mathematics Tests Available in the United States Sheldon S. Myers,1959

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experience to bear on questions of teaching and learning They systematically gather evidence to develop and support their conclusions The results are to be peer reviewed and made public for others to build on This Notes volume is written expressly for collegiate mathematics faculty who want to know more about conducting scholarly investigations into their teaching and their students learning Envisioned and edited by two mathematics faculty the volume serves as a how to guide for doing SoTL in mathematics Personality Tests and Reviews II Oscar Krisen Buros,1975 **Tests in Print II** Oscar Krisen Buros,1974 **Resources in Education** ,1982 *Cornell University Test List* ,1985 Enriched Teaching of Mathematics in the High School Maxie Nave Woodring,Vera Sanford,1938 Science Tests and Reviews Buros Center,1975 Science Tests and Reviews consisting of science sections of the first seven MMYs and Tests in Print II includes 217 original test reviews written by 81 specialists 18 excerpted test reviews 270 references on the construction use and validity of specific tests a bibliography on in print science tests references for specific tests cumulative name indexes for specific tests with references a publishers directory title index name index and a scanning index The 97 tests covered fall into the following categories 23 general 14 biology 35 chemistry 3 geology 6 miscellaneous and 16 physics Resources in Education ,1995 *Tests in Print* Oscar Krisen Buros,1974 New York Math: Math A ,2000 *Social Studies Tests and Reviews* Oscar Krisen Buros,1975 Social Science Tests and Reviews consisting of the social science sections of the first seven MMYs and Tests in Print II includes 166 original test reviews written by 72 specialists five excerpted test reviews 71 references on the construction use and validity of specific tests a bibliography on in print social science tests references for specific tests cumulative name indexes for specific tests with references a publishers directory title index name index and a scanning index The 85 tests covered fall into the following categories 22 general 5 contemporary affairs 10 economics 7 geography 24 history 13 political science and 4 sociology **Handbook to the Guide to the Evaluation of Educational Experiences in the Armed Services** ,1995 **Fundamental Mathematics** Thomas Leonard Wade,Howard Edward Taylor,1961 **General Catalog** LaSalle-Peru-Oglesby Junior College (LaSalle, Ill.),1961 Dissertation Abstracts International ,1980

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