

# 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)

# 2nd Semester Algebra Review Test

**Oscar Krisen Buros**

## 2nd Semester Algebra Review Test:

*Reading Tests and Reviews II* Oscar Krisen Buros,1975    *Geometry (Teacher Guide)* Harold R. Jacobs,2017-04-04 Jacobs best selling Geometry course has become a highly respected standard for teaching high school math in both top schools nationwide and within the homeschool market The Geometry Teacher Guide contains tests solutions to tests and a daily schedule The Geometry Teacher Guide Includes Convenient suggested daily schedule saving you time Tests chapter mid term final exam alternate test versions Test SolutionsPractical 3 hole punched perforated pages for ease of use    [Essential Mathematics for the Australian Curriculum Year 9](#) David Greenwood,Sara Wooley,Jenny Vaughan,Franca Frank,Jenny Goodman,David Robertson,2011-04 Essential Mathematics For The Australian Curriculum Year 9 Essential Mathematics for the Australian Curriculum builds on established learning sequences and teaching methods to provide an authoritative and practical interpretation of all content strands sub strands and content descriptions It also covers essential prior knowledge and includes some extension topics The essential foundations of the series The three interconnected content strands are incorporated into 11 units of work that can be completed in the school year Let's Start activities provide context and foundation for topics Every question is grouped according to the four proficiency strands of the new Australian Curriculum Understanding Fluency Problem solving and Reasoning Problem solving and Reasoning questions are included in every exercise Enrichment questions in each exercise and investigations challenges and puzzles in every chapter reflect curriculum aims by extending students in depth Literacy and numeracy skills thinking skills creativity and ICT activities including dynamic geometry and calculator activities are incorporated and encouraged in every chapter    **Mathematics Tests**

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*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    New York Math: Math A ,2000    **Tests in Print** Oscar Krisen Buros,1974    **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

*Fundamental Mathematics* Thomas Leonard Wade,Howard Edward Taylor,1961    *Handbook to the Guide to the Evaluation of Educational Experiences in the Armed Services* ,1995    General Catalog LaSalle-Peru-Oglesby Junior College (LaSalle, Ill.),1961    **Dissertation Abstracts International** ,1980    **Abstracts of Studies in Education at the Pennsylvania State College** Pennsylvania State College. School of Education,1933

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### **Table of Contents 2nd Semester Algebra Review Test**

1. Understanding the eBook 2nd Semester Algebra Review Test
  - The Rise of Digital Reading 2nd Semester Algebra Review Test
  - Advantages of eBooks Over Traditional Books
2. Identifying 2nd Semester Algebra Review 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 2nd Semester Algebra Review Test
  - User-Friendly Interface
4. Exploring eBook Recommendations from 2nd Semester Algebra Review Test
  - Personalized Recommendations
  - 2nd Semester Algebra Review Test User Reviews and Ratings

- 2nd Semester Algebra Review Test and Bestseller Lists
- 5. Accessing 2nd Semester Algebra Review Test Free and Paid eBooks
  - 2nd Semester Algebra Review Test Public Domain eBooks
  - 2nd Semester Algebra Review Test eBook Subscription Services
  - 2nd Semester Algebra Review Test Budget-Friendly Options
- 6. Navigating 2nd Semester Algebra Review Test eBook Formats
  - ePUB, PDF, MOBI, and More
  - 2nd Semester Algebra Review Test Compatibility with Devices
  - 2nd Semester Algebra Review Test Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of 2nd Semester Algebra Review Test
  - Highlighting and Note-Taking 2nd Semester Algebra Review Test
  - Interactive Elements 2nd Semester Algebra Review Test
- 8. Staying Engaged with 2nd Semester Algebra Review Test
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers 2nd Semester Algebra Review Test
- 9. Balancing eBooks and Physical Books 2nd Semester Algebra Review Test
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection 2nd Semester Algebra Review Test
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine 2nd Semester Algebra Review Test
  - Setting Reading Goals 2nd Semester Algebra Review Test
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of 2nd Semester Algebra Review Test
  - Fact-Checking eBook Content of 2nd Semester Algebra Review 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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