

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



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 Second Semester Exam Review Answer

**Arnold R. Steffensen, Lee Murphy
Johnson**



Algebra Second Semester Exam Review Answer:

, **Annual Catalogue** United States Air Force Academy, 1985 Introductory Algebra Arnold R. Steffensen, Lee Murphy Johnson, 1994 *United States Air Force Academy* United States Air Force Academy, *500 SAT Math Questions to Know by Test Day, Second Edition* Anaxos Inc., 2018-12-07 500 Ways to achieve your highest score We can help you succeed on your Math section of the SAT That's why we've selected these targeted 500 questions to help you study more effectively and use your review time wisely to achieve your best score These questions are similar to the ones you'll find on the SAT so you will know what to expect on test day Each question includes a concise easy to follow explanation in the answer key You can use these questions to supplement your overall preparation or run them all shortly before the test Either way McGraw Hill's 500 SAT Math Questions to Know by Test Day 2nd Edition will help you achieve the score you want This valuable study guide features 500 SAT Math questions and answers Step by step solutions to every problem Intensive practice for achieving a high score Material that matches the latest SAT **500 ACT Math Questions to Know by Test Day, Second Edition** Anaxos, Inc., 2018-02-23 Discover 500 Ways to Achieve Your Highest Score on the ACT The ACT is required or preferred by more colleges and universities than any other college entrance exam This essential guide will help you sharpen your skills and study more effectively for the exam The questions are similar to the ones featured on the ACT so you will know what to expect on test day Each question includes a concise easy to follow explanation Whether you have been studying all year or are doing a last minute review McGraw Hill's 500 ACT Math Questions to Know by Test Day Second Edition will help you achieve a higher score This edition has been updated to match the current exam McGraw Hill's 500 ACT Math Questions to Know by Test Day Second Edition features 500 ACT math questions Full explanations for each question A format parallel to the ACT exam **Pre-Algebra DeMYSTiFieD, Second Edition** Allan G. Bluman, 2010-12-06 Preempt your anxiety about PRE ALGEBRA Ready to learn math fundamentals but can't seem to get your brain to function No problem Add Pre Algebra Demystified Second Edition to the equation and you'll solve your dilemma in no time Written in a step by step format this practical guide begins by covering whole numbers integers fractions decimals and percents You'll move on to expressions equations measurement and graphing Operations with monomials and polynomials are also discussed Detailed examples concise explanations and worked problems make it easy to understand the material and end of chapter quizzes and a final exam help reinforce learning It's a no brainer You'll learn Addition subtraction multiplication and division of whole numbers integers fractions decimals and algebraic expressions Techniques for solving equations and problems Measures of length weight capacity and time Methods for plotting points and graphing lines Simple enough for a beginner but challenging enough for an advanced student Pre Algebra Demystified Second Edition helps you master this essential mathematics subject It's also the perfect way to review the topic if all you need is a quick refresh *Elementary Algebra with Basic Math Review* Richard N. Aufmann, 1989-04 **500 GRE Math Questions to Know by Test Day, Second Edition** Sandra Luna

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Table of Contents Algebra Second Semester Exam Review Answer

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

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