

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 Semester Exam Review

United States Air Force Academy

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the United States Air Force Academy text.

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Final Exam Review: MAT 104 & MAT 105 (John Jay College) A. A. Frempong, **Annual Catalogue** United States Air Force Academy, 1985 *Introductory Algebra* Margaret L. Lial, John Hornsby, Terry McGinnis, 2019 *Introductory Algebra* Global Edition *SAT Masterstrokes: Conquering the SAT Math* Pasquale De Marco, 2025-04-06 In a world where college admissions hinge on standardized testing the SAT Math section looms as a formidable challenge capable of shaping the academic destinies of countless high school students SAT Masterstrokes Conquering the SAT Math emerges as a beacon of hope a guiding light illuminating the path to success Within these pages aspiring students will find a comprehensive and accessible guide to mastering the SAT Math syllabus empowering them to tackle even the most daunting mathematical hurdles with confidence Expert educators have meticulously analyzed the SAT Math syllabus identifying the most frequently tested topics and presenting them in a clear and engaging manner This book is not merely a collection of dry theories and formulas it is an interactive learning experience featuring practice exercises after each chapter to reinforce comprehension and solidify understanding Moreover recognizing the importance of time management and strategic thinking in the SAT Math section an entire chapter is dedicated to these crucial skills providing invaluable insights into effective time allocation anxiety management and the strategic approach to different question types SAT Masterstrokes Conquering the SAT Math is more than just a textbook it is a companion a mentor and a source of unwavering support With its comprehensive syllabus coverage interactive learning approach and focus on time management and strategic thinking this book empowers students

to not just survive the SAT Math section but to conquer it Unlock your full potential and embark on the path to SAT Math mastery with SAT Masterstrokes Conquering the SAT Math This book is your ultimate weapon your trusted guide your unwavering companion on the journey to SAT Math success If you like this book write a review [Annual Catalog - United States Air Force Academy](#) United States Air Force Academy,1971 **United States Air Force Academy** United States Air Force Academy,1985 **THE BEST** Lou Water,2025-02-23 At an early age I developed a fierce love for all sports I attended numerous professional sporting events as a young man and these experiences along with my family inspired me to try to become the best possible athlete in baseball football golf bowling and more The Best recounts some experiences I had along my journey towards becoming a D1 NCAA athlete I also recount some dark years in high school and my conversion to belief in Jesus Christ at the beginning of my senior year Some highlights of The Best retell my personal encounters with well known athletes like MLB Hall of Fame baseball player Mickey Mantle and PGA Hall of Fame golfer and personal friend Payne Stewart You ll read stories about how I was recruited by major universities and how I met and learned from Hall of Fame coaches and players like Frank Broyles Dick Vermeil John Wooden Barry Switzer and Bill Walton I also fondly recount playing against legendary golfer Payne Stewart and defeating him my senior year in high school I hope you find The Best to be humorous and entertaining If you feel something is missing in your life I hope and pray that the contents of this manuscript will make an eternal difference for you [Curriculum Handbook with General Information Concerning ... for the United States Air Force Academy](#) United States Air Force Academy,2003

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Table of Contents Algebra Semester Exam Review

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

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

- 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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