

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

Pasquale De Marco



Algebra Semester Exam Review:

Final Exam Review: Elementary Algebra A. A. Frempong, Elementary Algebra covers Signed Number and Real Number Operations Order of Operations and Evaluation of Expressions Exponential Notation and Rules of Exponents Polynomial addition subtraction multiplication and division Solving First Degree Equations Word Problems Ratio and Proportion Factoring Polynomials Solving quadratic equations by factoring Graphs Slopes Intercepts and Equations of Straight Lines Solving Systems of Linear Equations and Word Problems Radicals square roots addition Pythagorean Theorem and Applications Areas and Perimeters Algebraic Fractions reduction multiplication division Solving Linear inequalities

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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 **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

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5:30 Bus to Clarksville Polly Ward McVicker,2022-11-03 5 30 Bus to Clarksville by Polly Ward McVicker

The Math Dude's Quick and Dirty Guide to Algebra Jason Marshall,2025-10-16 Need some serious help solving equations Totally frustrated by polynomials parabolas and that dreaded little x THE MATH DUDE IS HERE TO HELP Jason Marshall popular podcast host known to his fans as The Math Dude understands that algebra can cause agony But he s determined to show you that you can solve those confusing scream inducing math problems and it won t be as hard as you think Jason kicks things off with a basic training boot camp to help you review the essential math you ll need to truly get algebra The basics covered you ll be ready to tackle the concepts that make up the core of algebra You ll get step by step instructions and tutorials to help you finally understand the problems that stump you the most including loads of tips on Working with fractions decimals exponents radicals functions polynomials and more Solving all kinds of equations from basic linear problems to the quadratic formula and beyond Using graphs and understanding why they make solving complex algebra problems easier Learning algebra doesn t have to be a form of torture and with The Math Dude s Quick and Dirty Guide to Algebra it won t be Packed with tons of fun features including secret agent math libs and math brain games

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A Bridge to Higher

Mathematics James R. Kirkwood, Raina S. Robeva, 2024-05-08 The goal of this unique text is to provide an experience that would facilitate a better transition for mathematics majors to the advanced proof based courses required for their major. If you feel like you love mathematics but hate proofs, this book is for you. The change from example based courses such as Introductory Calculus to the proof based courses in the major is often abrupt and some students are left with the unpleasant feeling that a subject they loved has turned into material they find hard to understand. The book exposes students and readers to some fundamental content and essential methods of constructing mathematical proofs in the context of four main courses required for the mathematics major: probability, linear algebra, real analysis, and abstract algebra. Following an optional foundational chapter on background material, four short chapters each focusing on a particular course provide a slow-paced but rigorous introduction. Students get a preview of the discipline, its focus, language, mathematical objects of interest, and methods of proof commonly used in the field. The organization of the book helps to focus on the specific methods of proof and main ideas that will be emphasized in each of the courses. The text may also be used as a review tool at the end of each course and for readers who want to learn the language and scope of the broad disciplines of linear algebra, abstract algebra, real analysis, and probability before transitioning to these courses. *Aerospace Engineering Exam Prep* Cybellium

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