

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 Answers

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33 Steps to Algebra Readiness Fred Pirczak, 1995 Assesses student readiness with 31 diagnostic tests Promotes understanding of algebraic concepts with extensive practice sheets Teaching 6-12 Math Intervention Juliana Tapper, 2024-12-30 This practical resource offers a classroom tested framework for secondary math teachers to support students who struggle Teachers will explore an often overlooked piece of the math achievement puzzle the gatekeeping cycles of mathematics and the importance of teachers own expectations of students The immediately applicable strategies in this book developed through the author s work as a math intervention teacher intervention specialist and instructional coach will give teachers the tools to help students overcome math anxiety retention struggles and even apathy Beginning with a deep dive into the gatekeeping cycles to help teachers better understand their students who struggle the book then walks teachers through the five part B R E A K it™ Math Intervention Framework Build Community Routines to Boost Confidence Engage Every Student Advance Your Expectations Know Students Level of Understanding Educational research personal anecdotes from the author s own classroom and examples from case study teachers are woven into each chapter leading to clear action items planning strategies and best practices that are accessible enough to accommodate all grade levels and schedules The framework and activities in this book enable teachers to help students overcome math anxiety create a safe math environment for 6-12 students and ultimately increase achievement with effective research based suggestions for working with students who struggle Find additional resources at www.gatebreakerbook.com **Algebra** William G. McCallum, Eric Connally, Deborah Hughes-Hallett, 2014-11-25 Algebra Form and Function was designed based on the fundamental goal for a student to foster understanding of algebraic structure that is an understanding of how the arrangements of symbols allows us to predict for example the behavior of a function or the number of solutions to an equation Mastering algebraic structure enables students to read algebraic expressions and equations in real life contexts not just manipulate them and to choose which form or which operation will best suit the context It facilitates being able to translate back and forth between symbolic graphical numerical and verbal representations By balancing practice in manipulation and opportunities to see the big picture Algebra Form and Function offers a way for teachers to help students achieve real mastery of algebra **Algebra** L.E. Sigler, 2012-12-06 There is no one best way for an undergraduate student to learn elementary algebra Some kinds of presentations will please some learners and will disenchant others This text presents elementary algebra organized according to some principles of universal algebra Many students find such a presentation of algebra appealing and easier to comprehend The approach emphasizes the similarities and common concepts of the many algebraic structures Such an approach to learning algebra must necessarily have its formal aspects but we have tried in this presentation not to make abstraction a goal in itself We have made great efforts to render the algebraic concepts intuitive and understandable We have not hesitated to deviate from the form of the text when we feel it advisable for the

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On the Teaching of Linear Algebra J.-L. Dorier, 2000-09-30 This book presents the state of the art research on the teaching and learning of linear algebra in the first year of university in an international perspective It provides university teachers in charge of linear algebra courses with a wide range of information from works including theoretical and experimental issues

Algebra II Is Easy! So Easy Nathaniel Max Rock, 2006-02 Rock provides a guide to learning and understanding Algebra II Education Teaching

Brain and Mathematical Cognition Xinlin Zhou, 2024-08-01 This book intends to present a series of insights coming from in depth investigation of brain and mathematical cognition in Chinese population Specifically the book introduces research on the associations among number sense visual form perception and mathematical fluency symbolic and non symbolic mental number line and the role of spatial modeling and logical inference in mathematical problem solving The book summarizes author's previous studies on the involvement of semantic network other than visuospatial network in mathematical cognition The three component mathematical model that comes out of more than 10 years of research on mathematical cognition is introduced The book presents the effect of learning experience on arithmetic related brain system Chinese abacus that can be used to eradicate developmental dyscalculia in classroom is briefly discussed Special attention in this book is paid to mathematical anxiety and mathematical learning disorders in Chinese schoolchildren Finally gender differences in mathematical cognition are also reviewed

Algebra II For Dummies Mary Jane Sterling, 2012-06-27 Besides being an important area of math for everyday use algebra is a passport to studying subjects like calculus trigonometry number theory and geometry just to name a few To understand algebra is to possess the power to grow your skills and knowledge so you can ace your courses and possibly pursue further study in math Algebra II For Dummies is the fun and easy way to get a handle on this subject and solve even the trickiest algebra problems This friendly guide shows you how to get up to speed on exponential functions laws of logarithms conic sections matrices and other advanced algebra concepts In no time you'll have the tools you need to Interpret quadratic functions Find the roots of a polynomial Reason with rational functions Expose exponential and logarithmic functions Cut up conic sections Solve linear and non linear systems of equations Equate inequalities Simplify complex numbers Make moves with matrices Sort out sequences and sets This straightforward guide offers plenty of multiplication tricks that only math teachers know It also profiles special types of numbers making it easy for you to categorize them and solve any problems without breaking a sweat When it comes to understanding and working out algebraic equations Algebra II For Dummies is all you need to succeed

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Full Length CLEP College Algebra Practice Tests Reza Nazari, 2023-05-04 Your Comprehensive Guide to Mastering the CLEP College Algebra Test 10 Full Length CLEP College Algebra Practice Tests is a comprehensive and meticulously crafted practice book designed to help students refine their mathematical abilities overcome test anxiety and build their confidence all with the ultimate goal of excelling on the 2023 CLEP College Algebra Test This essential resource provides ten complete and authentic CLEP College Algebra practice tests allowing students to familiarize themselves with the test format and the key algebra concepts crucial for success on test day Each practice test question is paired with detailed answers and explanations enabling students to identify their weak areas learn from their mistakes and ultimately improve their CLEP College Algebra scores The key to success on the CLEP College Algebra Test lies in extensive practice in every algebra topic assessed and that's exactly what 10 Full Length CLEP College Algebra Practice Tests delivers This updated edition has been carefully curated to reflect questions found on the most recent CLEP College Algebra tests making it an indispensable learning resource for students seeking additional practice and higher scores in CLEP College Algebra Upon completing the practice tests in this book students will have established a strong foundation and gained ample practice necessary for success on the CLEP College Algebra test This book is their passport to acing the CLEP College Algebra test 10 Full Length CLEP College Algebra Practice Tests offers a wealth of exciting and unique features designed to help students elevate their test scores including Content 100% aligned with the 2023 CLEP test Comprehensive coverage of all CLEP College Algebra

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