

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 1 Final Exam With Answers

Angie Papple Johnston, Rod Powers



Algebra 1 Final Exam With Answers:

Final Exam Review: Intermediate Algebra A. A. Frempong, Intermediate Algebra covers Real Number Operations Exponents Radicals Fractional Exponents Factoring Polynomials Solving quadratic equations and applications Graphs Slopes Intercepts and Equations of Straight Lines Graphs of Parabolas Linear Inequalities Compound Inequalities Inequality Word Problems Reduction multiplication division and addition of algebraic fractions Solving Fractional or Rational Equations Solving Radical Equations Variation and Variation Problems Complex Numbers Square roots of negative Numbers addition multiplication and division of complex Numbers Absolute value equations Absolute Value Inequalities Logarithms Logarithmic equations and Exponential Equations Graphs of exponential and logarithmic functions Applications of exponential and logarithmic functions **Bringing the Common Core Math Standards to Life** Yvelyne

Germain-McCarthy, Ivan Gill, 2014-11-20 Provides a clear explanation of the big shifts happening in the classroom as a result of the Common Core State Standards Offers real examples and detailed analyses of how exemplary teachers are using engaging strategies across the curriculum Includes practical ready to use tools you can take back to your classroom

Regents Exams and Answers Algebra I Revised Edition Gary M. Rubinstein, 2021-01-05 Always study with the most up to date prep Look for Regents Exams and Answers Algebra I Fourth Edition ISBN 9781506291291 on sale January 2 2024 Publisher's Note Products purchased from third party sellers are not guaranteed by the publisher for quality authenticity or access to any online entities included with the product *A Five-Year Study of the First Edition of the Core-Plus Mathematics Curriculum* Harold Schoen, Steven W. Ziebarth, Christian R. Hirsch, Allison BrckaLorenz, 2010-07-01 The study reported in this volume adds to the growing body of evaluation studies that focus on the use of NSF funded Standards based high school mathematics curricula Most previous evaluations have studied the impact of field test versions of a curriculum Since these innovative curricula were so new at the time of many of these studies students and teachers were relative novices in their use These earlier studies were mainly one year or less in duration Students in the comparison groups were typically from schools in which some classes used a Standards based curriculum and other classes used a conventional curriculum rather than using the Standards based curriculum with all students as curriculum developers intended The volume reports one of the first studies of the efficacy of Standards based mathematics curricula with all of the following characteristics The study focused on fairly stable implementations of a first edition Standards based high school mathematics curriculum that was used by all students in each of three schools It involved students who experienced up to seven years of Standards based mathematics curricula and instruction in middle school and high school It monitored students mathematical achievement beliefs and attitudes for four years of high school and one year after graduation Prior to the study many of the teachers had one or more years of experience teaching the Standards based curriculum and or professional development focusing on how to implement the curriculum well In the study variations in levels of implementation of the curriculum are

described and related to student outcomes and teacher behavior variables Item data and all unpublished testing instruments from this study are available at www.wmich.edu/cmp for use as a baseline of instruments and data for future curriculum evaluators or Core Plus Mathematics users who may wish to compare results of new groups of students to those in the present study on common tests or surveys Taken together this volume the supplement at the CPMP Web site and the first edition Core Plus Mathematics curriculum materials samples of which are also available at the Web site serve as a fairly complete description of the nature and impact of an exemplar of first edition NSF funded Standards based high school mathematics curricula as it existed and was implemented with all students in three schools around the turn of the 21st century

The Math Dude's Quick and Dirty Guide to Algebra Jason Marshall, 2015-10-16 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 and full of quick and dirty tips that get right to the point this book will have even the biggest math o phobes basking in a ha moments and truly understanding algebra in a way that will stick for years and tests to come Whether you're a student who needs help passing algebra class a parent who wants to help their child meet that goal or somebody who wants to brush up on their algebra skills for a new job or maybe even just for fun look no further Sit back relax and let this guide take you on a trip through the world of algebra

Algebra I for Beginners Reza Nazari, 2023-01-30 The Only Book You Will Ever Need to Ace Algebra I Course Algebra I for Beginners is a comprehensive guide for those just starting out in algebra Designed for high school students or those looking to brush up on their skills this book provides a clear and easy to follow approach to the subject From solving linear equations to graphing quadratic functions this book covers all the core concepts of Algebra I With complete coverage of Algebra I topics step by step explanations and a wealth of examples and practice problems Algebra I for Beginners offers the best education possible Written by a math teacher and expert the book is aligned with Algebra I courses and features an engaging writing style that makes it easy to understand and retain the material Whether you're struggling with algebra or simply looking to improve your skills this book is an excellent resource Ideal for self study or for

use in the classroom it will help you develop a strong foundation in the subject Get ready for the Algebra I Exam with a perfect prep book from Effortless Math Education Published by Effortless Math Education www.EffortlessMath.com

Proofs in Competition Math: Volume 2 Alexander Toller, Freya Edholm, Dennis Chen, 2019-07-10 All too often through common school mathematics students find themselves excelling in school math classes by memorizing formulas but not their applications or the motivation behind them As a consequence understanding derived in this manner is tragically based on little or no proof This is why studying proofs is paramount Proofs help us understand the nature of mathematics and show us the key to appreciating its elegance But even getting past the concern of why should this be true students often face the question of when will I ever need this in life Proofs in Competition Math aims to remedy these issues at a wide range of levels from the fundamentals of competition math all the way to the Olympiad level and beyond Don't worry if you don't know all of the math in this book there will be prerequisites for each skill level giving you a better idea of your current strengths and weaknesses and allowing you to set realistic goals as a math student So mathematical minds we set you off

Regents Exams and Answers: Algebra II Revised Edition Barron's Educational Series, Gary Michael Rubinstein, 2021-01-05 Barron's Regents Exams and Answers Algebra II provides essential review for students taking the Algebra II exam including actual exams administered for the course and thorough answer explanations and comprehensive review of all topics This edition features Six actual administered Regents exams so students have the practice they need to prepare for the test Comprehensive review questions grouped by topic to help refresh skills learned in class Detailed explanations for all answers Score analysis charts to help identify strengths and weaknesses Study tips and test taking strategies All algebra II topics are covered including Polynomial Equations Rational Equations Exponential and Logarithmic Equations Systems of Equations with Three Variables Functions Sequences and Probability

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Math Education for America? Mark Wolfmeyer, 2013-12-04 Math Education for America analyzes math education policy through the social network of individuals

and private and public organizations that influence it in the United States The effort to standardize a national mathematics curriculum for public schools in the U S culminated in 2010 when over 40 states adopted the Common Core State Standards for Mathematics Rather than looking at the text of specific policy documents this book complements existing critical reviews of the national math education curriculum by employing a unique social network analysis Breaking new ground in detailing and theorizing the politics of math education Wolfmeyer argues that the private interests of this network are closely tied to a web of interrelated developments human capital education policy debates over traditional and reform pedagogy the assumed content knowledge deficit of math teachers and the proliferation of profit driven educational businesses By establishing the interconnectedness of these interests with the national math education curriculum he shows how the purported goals of math education reform are aligned with the prevailing political agendas of this social network rather than the national interest

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