

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 End Of Course Exam Review

Ensheng Dong



Algebra End Of Course 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

Final Exam Review: MAT 104 & MAT 105 (John Jay College) A. A. Frempong, 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 Final Exam Review: Arithmetic A. A. Frempong, Arithmetic covers Basic Definitions Terminology and Types of

Numbers Writing Whole Numbers Using Numerals and Words Basic Operations and Properties Order of Operations and Evaluation of Arithmetic Expressions Rounding off Whole Numbers and Decimals Estimation Prime Numbers Divisibility Rules Prime Factorization Least Common Multiple LCM Operations on Fractions and Mixed Numbers Addition and Subtraction of Fractions Comparison of Fractions and Subtraction of Mixed Numbers Multiplication and Division of Fractions and Mixed Numbers Operations on Decimals Comparison of Decimals Complex Decimals Dividing Decimals Converting Fractions to Decimals Ratio and Proportion Proportion Problems Percent % and Calculations Involving Percent Averages Profit and Loss Areas and Perimeters Bar Line and Circle Pie Graphs Scientific Notation Measurements Roadmap to the Virginia SOL Princeton Review (Firm),2005 **Curriculum Handbook with General Information Concerning ... for the United States Air Force Academy** United States Air Force Academy,2004 Effectiveness of reading and mathematics software products findings from the first student cohort : report , **Annual Catalog - United States Air Force Academy** United States Air Force Academy,1971 *Community College Mathematics* Brian Cafarella,2022-06-29 This book explores the rich history of community college math with a specific focus on gatekeeper math classes Gatekeeper math classes include courses such as college algebra introduction to statistics and all developmental math classes For community colleges successful completion of these classes is imperative for student retention This book presents a decade by decade analysis of the history of community college mathematics The author employs a mix of conceptual empirical and quantitative research The empirical research stems from interviews with 30 community college faculty members from seven community colleges From the 1970s to the pandemic in the early 2020s the book explores math curricula as well as trends initiatives teaching practices and mandates that have impacted community college math The positives and negatives of such trends initiatives and mandates are presented along with suggestions on how to apply such knowledge going forward The author addresses the key questions How can we build a future model for community college gatekeeper math classes that is both successful and sustainable Additionally how can we learn from the past and the present to build such a model This book will be ideal for students in graduate programs focusing on community college leadership or developmental education leadership as well as all those hoping to improve success rates in community college mathematics programs **United States Air Force Academy** United States Air Force Academy, **Annual Catalogue** United States Air Force Academy,1985 The Navy List Great Britain. Admiralty,1889 Resources in Education ,1997 **Managing School Districts for High Performance** Stacey Childress,2007 Managing School Districts for High Performance brings together more than twenty case studies and other readings that offer a powerful and transformative approach to advancing and sustaining the work of school improvement At the center of this work is the concept of organizational coherence aligning organizational design human capital management resource allocation and accountability and performance improvement systems to support an overarching strategy This central idea provides a valuable conceptual framework for current and future school leaders The

case studies presented in *Managing School Districts for High Performance* grow out of the Public Education Leadership Project PELP a unique partnership between the Harvard Business School the Harvard Graduate School of Education and a network of urban school districts This rich array of cases explores the managerial challenges districts face as they seek to ensure rich learning opportunities and high achievement for all students across a system of schools This book of insightful case studies fills a void long felt by educational administrators in search of practical real world training tools It will serve as a catalyst for the tough conversations district leaders need to have about achieving high quality outcomes for all students The Broad Center for the Management of School Systems has used many of these cases with great success and we are excited that they are now compiled into a single collection Dan Katzir Managing Director The Broad Foundation This volume is not a treatise about how schools and districts should work Rather it provides a deep immersion in the real dilemmas involved in advancing school district reform Anyone who works through these cases cannot help but come away with a more informed vision for change a more reflective orientation about the interrelationships among the multiple tasks involved and a more prudent grasp of what it takes to educate all children to high academic standards The course of study presented by *Managing School Districts for High Performance* should be required professional education for anyone charged with advancing a coherent agenda of school improvement in our diverse demanding and rapidly changing society Anthony S Bryk Spencer Professor of Organizational Studies Stanford University This set of case studies offers practitioners policymakers and scholars the opportunity to learn from the collective wisdom and real life experiences of educational leaders involved in systemic transformation Implementing coherent reform strategies designed to improve and sustain student performance often takes place in a vacuum As a former urban superintendent I believe that these selected educational case studies provide a compelling forum for shared experiential teaching and learning Arlene Ackerman Christian A Johnson Professor of Outstanding Educational Practice Teachers College Columbia University This collaboration between the Harvard Business School and the Harvard Graduate School of Education provides a set of analytical tools to address the most complex and challenging issues facing urban public schools The contemporary case studies document actual choices and constraints and point to patterns and similarities across organizations from urban schools to corporate environments Carol Johnson Superintendent Boston Public Schools Stacy Childress is a lecturer at Harvard Business School Richard F Elmore is the Gregory R Anrig Professor of Educational Leadership at the Harvard Graduate School of Education Allen S Grossman is the MBA Class of 1957 Professor of Management Practice at Harvard Business School Susan Moore Johnson is the Pforzheimer Professor of Teaching and Learning at the Harvard Graduate School of Education [The Harvard School for Boys](#) Harvard School for Boys (Chicago, Ill.),1889 *Large-Scale Studies in Mathematics Education* James A. Middleton,Jinfa Cai,Stephen Hwang,2015-05-05 In recent years funding agencies like the Institute of Educational Sciences and the National Science Foundation have increasingly emphasized large scale studies with experimental and quasi experimental designs looking for

objective truths Educational researchers have recently begun to use large scale studies to understand what really works from developing interventions to validation studies of the intervention and then to efficacy studies and the final scale up for large implementation of an intervention Moreover modeling student learning developmentally taking into account cohort factors issues of socioeconomics local political context and the presence or absence of interventions requires the use of large data sets wherein these variables can be sampled adequately and inferences made Inroads in quantitative methods have been made in the psychometric and sociometric literatures but these methods are not yet common knowledge in the mathematics education community In fact currently there is no volume devoted to discussion of issues related to large scale studies and to report findings from them This volume is unique as it directly discusses methodological issue in large scale studies and reports empirical data from large scale studies *Let's Review Regents: Algebra I Revised Edition* Gary M.

Rubinstein,2021-01-05 Always study with the most up to date prep Look for Let s Review Regents Algebra I Fourth Edition ISBN 9781506291307 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 University of Michigan Official Publication University of Michigan,1986-09 Each number is the catalogue of a specific school or college of the University Managing the Mean Math Blues Cheryl Ooten,Kathy Moore,2009 A supplemental book for courses in Study Skills This book incorporates user friendly study skills practice math practice brain based learning and positive psychology so the reluctant and anxious student can overcome math anxiety Students turn failure into success as they practice these new skills on basic math content With clear psychological models for concentration and focus called flow into math students learn how to match their skills with math challenges set short term goals and seek feedback in order to learn math successfully *100 Top Picks for Homeschool Curriculum* Cathy Duffy,2005 A critical volume for the homeschooling community that helps parents make informed choices regarding learning styles and curriculum

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