

ALGEBRA I FINAL EXAM

Directions: Choose the best answer for each question.

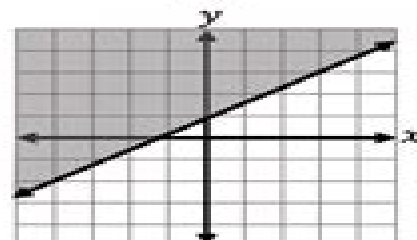
1. Find the difference of the polynomials.

$$(3x^2 - 2xy + y^2) - (-5x^2 + 6xy - y^2)$$

- a. $2x^2 - 3xy$
- b. $8x^2 - 11xy$
- c. $2x^2 - 3xy + 2y$
- d. $8x^2 - 8xy + 2y^2$

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. $y < -\frac{3}{2}x + 1$



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. $15x^2 - 23xy - 3y^2$

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

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

6. Evaluate the expression when $x = 2$ and $y = -3$.

$$3y^2 - 2(5x + 3) - 1$$

- a. 0
- b. -3
- c. 10
- d. -4

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. $x = \frac{5 \pm \sqrt{73}}{12}$

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 Semester 1 Part

Kakoma Luneta, Marc Schäfer



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The Algebra Miracle: The True Story of a High-Poverty School's Triumph in the Age of Accountability Stuart Alan Singer, 2012-02-21 A miracle is defined as a highly improbable or extraordinary accomplishment The story of the Algebra program at JEB Stuart High School in Fairfax Virginia qualifies for such a designation Over a period of fifteen years a series of ambitious no cost innovations which challenged the prevailing status quo in math education led to a set of academic accomplishments that were indeed improbable and extraordinary This miracle was achieved by a high poverty ethnically diverse student body that was unique at the time but is now representative of schools found throughout the U S For everyone touched by education from parents and students to teachers and administrators The Algebra Miracle will provide insights into the complexity of finding a low cost formula for academic success in the tight budgetary times of the 21st century This story serves as a model of what can be accomplished when a dedicated school staff commits its time energy and creativity to the needs of their students Introductory Maths for Chemists , **Classical Numerical Analysis** Abner J. Salgado, Steven M. Wise, 2022-10-20 A thorough introduction to graduate classical numerical analysis with all important topics covered rigorously *Peterson's Graduate Programs Programs in Mathematics 2011* Peterson's, 2011-05-01 Peterson's Graduate Programs in Mathematics contains a wealth of information on colleges and universities that offer graduate work in Applied Mathematics Applied Statistics Biomathematics Biometry Biostatistics Computational Sciences Mathematical and Computational Finance Mathematics and Statistics The institutions listed include those in the United States Canada and abroad that are accredited by U S accrediting bodies Up to date information collected through Peterson's Annual Survey of Graduate and Professional Institutions provides valuable information on degree offerings professional accreditation jointly offered degrees part time and evening weekend programs postbaccalaureate distance degrees faculty students degree requirements entrance requirements expenses financial support faculty research and unit head and application contact information Readers will find helpful links to in depth descriptions that offer additional detailed information about a specific program or department faculty members and their research and much more In addition there are valuable articles on financial assistance the graduate admissions process advice for international and minority students and facts about accreditation with a current list of accrediting agencies Peterson's Graduate Programs in the Physical Sciences, Mathematics, Agricultural Sciences, the Environment & Natural Resources 2012 Peterson's, 2011-12-30 Graduate Programs in the Physical Sciences Mathematics Agricultural Sciences the Environment Natural Resources 2012 contains more than 2 900 graduate programs in 59 disciplines including agriculture and food sciences astronomy and astrophysics chemistry physics mathematics environmental sciences and management natural resources marine sciences and more This guide is part of Peterson's six volume Annual Guides to Graduate Study the only annually updated reference work of its kind provides wide ranging information on the graduate and professional programs offered by U S accredited colleges and universities in the

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Mathematics Teacher Training and Development in Africa
Kakoma Luneta, Marc Schäfer, 2024-10-09 This edited volume addresses the need for reforms in mathematics teacher training spurred by scientific advancements and societal changes encompassing calls for changes in curricula content and instructional methods The text highlights the complexities of teaching mathematics specifically within Africa It provides an exploration into how mathematics teacher training has evolved to address challenges such as ineffective teaching approaches lack of resources technological limitations and outdated training programs Through comprehensive systematic reviews for each country in the African region documentation is provided on the past present and envisioned future of teacher training programs This undertaking provides a detailed analysis of mathematics teacher training offering valuable insights for teacher trainers government ministries of education and stakeholders across Africa For anyone invested in enhancing mathematics education in the region this book offers indispensable guidance and knowledge

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Peterson's, Peterson's Guides Staff, 2004-01-11 This entertaining guide to life after high school gets students started in the right direction whether they choose college the workforce or the military Each of the 6 region specific volumes features entertaining articles quizzes and fun activities Engaging and educational this interactive guide is great for college planning and career exploration Along with state and national scholarship opportunities and advice on campus visits applications and interviews

The Principalship from A to Z Ronald Williamson, Barbara R. Blackburn, 2016-03-22 The second edition of *The Principalship from A to Z* provides a set of tools that can be used immediately to improve your leadership practice Organized into 26 chapters one for each letter of the alphabet this book covers the most important and prevalent issues and skills for leaders in today's schools including matters of limited funding juggling social media teacher evaluation student achievement school safety and collaborating with parents This accessible guide offers specific strategies that will help you navigate the complexity of your job and help you to become a more effective principal Topics new to this updated edition include A renewed focus on student learning as the first priority of a principal and updated strategies for becoming a powerful instructional coach Information about restorative justice practices and other disciplinary approaches Timely new chapters on motivating teachers and students using social media and handling limited resources Updated resources at the end of each chapter For both new and experienced leaders you'll find this book to be full of practical templates and strategies

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