

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

Nick Gurski



Algebra 1:

Algebraic Structures and Applications Sergei Silvestrov, Anatoliy Malyarenko, Milica Rančić, 2020-06-18 This book explores the latest advances in algebraic structures and applications and focuses on mathematical concepts methods structures problems algorithms and computational methods important in the natural sciences engineering and modern technologies In particular it features mathematical methods and models of non commutative and non associative algebras hom algebra structures generalizations of differential calculus quantum deformations of algebras Lie algebras and their generalizations semi groups and groups constructive algebra matrix analysis and its interplay with topology knot theory dynamical systems functional analysis stochastic processes perturbation analysis of Markov chains and applications in network analysis financial mathematics and engineering mathematics The book addresses both theory and applications which are illustrated with a wealth of ideas proofs and examples to help readers understand the material and develop new mathematical methods and concepts of their own The high quality chapters share a wealth of new methods and results review cutting edge research and discuss open problems and directions for future research Taken together they offer a source of inspiration for a broad range of researchers and research students whose work involves algebraic structures and their applications probability theory and mathematical statistics applied mathematics engineering mathematics and related areas

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Analytic Trigonometry with Applications, Student Solutions Manual Raymond A. Barnett, Michael R. Ziegler, Karl E. Byleen, Dave Sobecki, 2009-09-08 Learning trigonometry concepts can be a difficult and frustrating process The tenth edition of this successful book helps readers gain a strong understanding of these concepts by discovering how trigonometry is relevant in their lives through rich applications It follows a right triangle first approach and is graphing optional Readers will find new and updated applications as well as additional exercises and solutions Greater emphasis is also placed on relevant applications more than other books in the field All of this will help readers comprehend

and retain the material *FUNDAMENTALS OF DIGITAL CIRCUITS, Fourth Edition* KUMAR, A. ANAND, 2016-07-18 The Fourth edition of this well received text continues to provide coherent and comprehensive coverage of digital circuits It is designed for the undergraduate students pursuing courses in areas of engineering disciplines such as Electrical and Electronics Electronics and Communication Electronics and Instrumentation Telecommunications Medical Electronics Computer Science and Engineering Electronics and Computers and Information Technology It is also useful as a text for MCA M Sc Electronics and M Sc Computer Science students Appropriate for self study the book is useful even for AMIE and grad IETE students Written in a student friendly style the book provides an excellent introduction to digital concepts and basic design techniques of digital circuits It discusses Boolean algebra concepts and their application to digital circuitry and elaborates on both combinational and sequential circuits It provides numerous fully worked out laboratory tested examples to give students a solid grounding in the related design concepts It includes a number of short questions with answers review questions fill in the blanks with answers multiple choice questions with answers and exercise problems at the end of each chapter As the book requires only an elementary knowledge of electronics to understand most of the topics it can also serve as a textbook for the students of polytechnics B Sc Electronics and B Sc Computer Science NEW TO THIS EDITION Now based on the readers demand this new edition incorporates VERILOG programs in addition to VHDL programs at the end of each chapter **United States Air Force Academy** United States Air Force Academy, 1974 **Boolean Constructions in Universal Algebras** A.G. Pinus, 2013-04-17 During the last few decades the ideas methods and results of the theory of Boolean algebras have played an increasing role in various branches of mathematics and cybernetics This monograph is devoted to the fundamentals of the theory of Boolean constructions in universal algebra Also considered are the problems of presenting different varieties of universal algebra with these constructions and applications for investigating the spectra and skeletons of varieties of universal algebras For researchers whose work involves universal algebra and logic **On Normalized Integral Table Algebras (Fusion Rings)** Zvi Arad, Xu Bangteng, Guiyun Chen, Effi Cohen, Arisha Haj Ihia Hussam, Mikhail Muzychuk, 2011-07-20 The theory of table algebras was introduced in 1991 by Z Arad and H Blau in order to treat in a uniform way products of conjugacy classes and irreducible characters of finite groups Today table algebra theory is a well established branch of modern algebra with various applications including the representation theory of finite groups algebraic combinatorics and fusion rules algebras This book presents the latest developments in this area Its main goal is to give a classification of the Normalized Integral Table Algebras Fusion Rings generated by a faithful non real element of degree 3 Divided into 4 parts the first gives an outline of the classification approach while remaining parts separately treat special cases that appear during classification A particularly unique contribution to the field can be found in part four whereby a number of the algebras are linked to the polynomial irreducible representations of the group $SL_3 \mathbb{C}$ This book will be of interest to research mathematicians and PhD students working in table algebras group representation theory algebraic

combinatorics and integral fusion rule algebras **Encyclopaedia of Mathematics** M. Hazewinkel, 2013-12-01 **Linear Algebras** L. E. Dickson, 2015-03-26 Originally published in 1914 this book provides a concise account regarding the theory of linear associative algebras The NAEP ... Technical Report , 1992 **Curriculum Handbook with General Information Concerning ... for the United States Air Force Academy** United States Air Force Academy, 1992 *Coherence in Three-Dimensional Category Theory* Nick Gurski, 2013-03-21 Serves as an introduction to higher categories as well as a reference point for many key concepts in the field Algebraic Geometry I: Schemes Ulrich Görtz, Torsten Wedhorn, 2020-07-27 This book introduces the reader to modern algebraic geometry It presents Grothendieck's technically demanding language of schemes that is the basis of the most important developments in the last fifty years within this area A systematic treatment and motivation of the theory is emphasized using concrete examples to illustrate its usefulness Several examples from the realm of Hilbert modular surfaces and of determinantal varieties are used methodically to discuss the covered techniques Thus the reader experiences that the further development of the theory yields an ever better understanding of these fascinating objects The text is complemented by many exercises that serve to check the comprehension of the text treat further examples or give an outlook on further results The volume at hand is an introduction to schemes To get started it requires only basic knowledge in abstract algebra and topology Essential facts from commutative algebra are assembled in an appendix It will be complemented by a second volume on the cohomology of schemes

Knowledge-Based and Intelligent Information and Engineering Systems Rossitza Setchi, Ivan Jordanov, 2010-08-30 The four volume set LNAI 6276 6279 constitutes the refereed proceedings of the 14th International Conference on Knowledge Based Intelligent Information and Engineering Systems KES 2010 held in Cardiff UK in September 2010 The 272 revised papers presented were carefully reviewed and selected from 360 submissions They present the results of high quality research on a broad range of intelligent systems topics **General Register** University of Michigan, 1958 Announcements for the following year included in some vols Embracing Reason Daniel Chazan, Sandra Callis, Michael Lehman, 2009-12-16 This book tells a single story in many voices about a serious and sustained set of changes in mathematics teaching practice in a high school and how those efforts influenced and were influenced by a local university It challenges us to rethink boundaries between theory and practice and the relative roles of teachers and university faculty in educational endeavors

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