

Instructions Please write your name in the upper right-hand corner of the page. Use complete sentences, along with any necessary supporting calculations, to answer the following questions.

1. Suppose that F is a field in which $(x + y)^2 = x^2 + y^2$ for all elements x and y . Show that F has characteristic 2 (that is, $1 + 1 = 0$ in F).

Solution. Set both x and y equal to the multiplicative identity element 1:

$$(1 + 1)^2 = 1^2 + 1^2.$$

Distributing the multiplication on the left-hand side shows that

$$1^2 + 1^2 + 1^2 + 1^2 = 1^2 + 1^2.$$

Cancel the common terms to see that

$$1^2 + 1^2 = 0.$$

But $1^2 = 1$, since 1 is the multiplicative identity, so

$$1 + 1 = 0.$$

Thus the field has characteristic equal to 2.

Remark We did a related calculation in class yesterday to prove that every Boolean ring is commutative.

The condition stated in the problem is actually both necessary and sufficient for the field to have characteristic 2.

2. Consider the set of 2×2 matrices with real entries. Suppose that matrices are added and multiplied in the usual way, but a nonstandard scalar multiplication rule is defined as follows:

$$\lambda \begin{pmatrix} a & b \\ c & d \end{pmatrix} = \begin{pmatrix} \lambda a & b \\ \lambda c & d \end{pmatrix} \quad \text{for every real number } \lambda.$$

Do these operations provide the set of 2×2 matrices with the structure of an algebra (a ring that is simultaneously a vector space)? Explain.

Applied College Algebra Iae

Tze-San Lee



Applied College Algebra Iae:

Intermediate Algebra Richard N. Aufmann, Vernon C. Barker, 1987 **Catalogue of Miami University at Oxford, Ohio** Miami University (Oxford, Ohio), 1963 Academic Programs Michigan State University, 1973 **College Algebra and Calculus: An Applied Approach** Ron Larson, Anne V. Hodgkins, 2008-10-29 COLLEGE ALGEBRA AND CALCULUS AN APPLIED APPROACH the newest addition to the Larson Applied math family allows your students to feel confident moving from college algebra to applied calculus The mathematical concepts and applications are consistently presented in the same tone and pedagogy The combination of these two subjects into one text will not only save you time in your course but it will also save your students the cost of an extra textbook Important Notice Media content referenced within the product description or the product text may not be available in the ebook version *Catalog* South Dakota State College of Agriculture and Mechanic Arts, South Dakota State University, 1954 *Catalog*, 1957 **Annual Catalog Number** South Dakota Agricultural College, South Dakota State College of Agriculture and Mechanic Arts, 1964 **Annual Catalog** South Dakota Agricultural College, South Dakota State University, 1960 *Elementary Physical Geography* Richard Anthony Proctor, 1873 **Lessons in Elementary Astronomy, with an Appendix, Containing Hints for Young Telescopists** Richard Anthony Proctor, 1873 **An English grammar** Frederick Meyrick, 1873 A Graphical Approach to College Algebra Plus Mymathlab/Mystatlab Student Access Code Card John Hornsby, John S Hornsby, Margaret L. Lial, Gary K. Rockswold, 2010-06-15 This package consists of the textbook plus an access kit for MyMathLab MyStatLab A Graphical Approach to College Algebra illustrates how the graph of a function can be used to support the solutions of equations and inequalities involving the function Beginning with linear functions in Chapter 1 the text uses a four part process to analyze each type of function starting first with the graph of the function then the equation the associated inequality of that equation and ending with applications The text covers all of the topics typically caught in a college algebra course but with an organization that fosters students understanding of the interrelationships among graphs equations and inequalities With the Fifth Edition the text continues to evolve as it addresses the changing needs of today s students Included are additional components to build skills address critical thinking solve applications and apply technology to support traditional algebraic solutions while maintaining its unique table of contents and functions based approach A Graphical Approach to College Algebra continues to incorporate an open design with helpful features and careful explanations of topics MyMathLab provides a wide range of homework tutorial and assessment tools that make it easy to manage your course online *Scientific and Technical Aerospace Reports*, 1966 **College Algebra** Tze-San Lee, 2015-04-23 Mastery of college algebra is the first step towards building a successful engineering and science career This textbook provides a concise overview of the subject for students at all levels It approaches the subject by presenting concepts through mathematical definitions illustrated with worked examples Historical footnotes provide context for the concepts and highlight the

contributions made by mathematicians over the centuries and across many countries Additional references are provided for students who are interested in widening their scope of the subject matter **Catalog** Georgia Southern College,1983

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Table of Contents Applied College Algebra Iae

1. Understanding the eBook Applied College Algebra Iae
 - The Rise of Digital Reading Applied College Algebra Iae
 - Advantages of eBooks Over Traditional Books
2. Identifying Applied College Algebra Iae
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Applied College Algebra Iae
 - User-Friendly Interface
4. Exploring eBook Recommendations from Applied College Algebra Iae
 - Personalized Recommendations

- Applied College Algebra Iae User Reviews and Ratings
- Applied College Algebra Iae and Bestseller Lists
- 5. Accessing Applied College Algebra Iae Free and Paid eBooks
 - Applied College Algebra Iae Public Domain eBooks
 - Applied College Algebra Iae eBook Subscription Services
 - Applied College Algebra Iae Budget-Friendly Options
- 6. Navigating Applied College Algebra Iae eBook Formats
 - ePub, PDF, MOBI, and More
 - Applied College Algebra Iae Compatibility with Devices
 - Applied College Algebra Iae Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Applied College Algebra Iae
 - Highlighting and Note-Taking Applied College Algebra Iae
 - Interactive Elements Applied College Algebra Iae
- 8. Staying Engaged with Applied College Algebra Iae
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Applied College Algebra Iae
- 9. Balancing eBooks and Physical Books Applied College Algebra Iae
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Applied College Algebra Iae
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Applied College Algebra Iae
 - Setting Reading Goals Applied College Algebra Iae
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Applied College Algebra Iae
 - Fact-Checking eBook Content of Applied College Algebra Iae

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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