

$$\textcircled{1} \quad G = \left\{ \begin{bmatrix} x & x \\ x & x \end{bmatrix} \mid x \in \mathbb{R} \setminus \{0\} \right\}$$

a)  $\begin{bmatrix} \frac{1}{2} & \frac{1}{2} \\ \frac{1}{2} & \frac{1}{2} \end{bmatrix}$  is identity element for  $G$ .

It is enough to prove that

$$\begin{bmatrix} x & x \\ x & x \end{bmatrix} \cdot \begin{bmatrix} \frac{1}{2} & \frac{1}{2} \\ \frac{1}{2} & \frac{1}{2} \end{bmatrix} = \begin{bmatrix} x & x \\ x & x \end{bmatrix}.$$

We have

$$\begin{bmatrix} x & x \\ x & x \end{bmatrix} \cdot \begin{bmatrix} \frac{1}{2} & \frac{1}{2} \\ \frac{1}{2} & \frac{1}{2} \end{bmatrix} = \begin{bmatrix} x \cdot \frac{1}{2} + x \cdot \frac{1}{2} & x \cdot \frac{1}{2} + x \cdot \frac{1}{2} \\ x \cdot \frac{1}{2} + x \cdot \frac{1}{2} & x \cdot \frac{1}{2} + x \cdot \frac{1}{2} \end{bmatrix} = \begin{bmatrix} x & x \\ x & x \end{bmatrix}$$

b) Inverse of  $\begin{bmatrix} x & x \\ x & x \end{bmatrix}$  in  $G$ .

Let  $\begin{bmatrix} y & y \\ y & y \end{bmatrix}$  be the inverse of  $\begin{bmatrix} x & x \\ x & x \end{bmatrix}$

Therefore  $\begin{bmatrix} x & x \\ x & x \end{bmatrix} \cdot \begin{bmatrix} y & y \\ y & y \end{bmatrix} = \begin{bmatrix} \frac{1}{2} & \frac{1}{2} \\ \frac{1}{2} & \frac{1}{2} \end{bmatrix}$

We have

$$\begin{bmatrix} x & x \\ x & x \end{bmatrix} \cdot \begin{bmatrix} y & y \\ y & y \end{bmatrix} = \begin{bmatrix} 2xy & 2xy \\ 2xy & 2xy \end{bmatrix} = \begin{bmatrix} \frac{1}{2} & \frac{1}{2} \\ \frac{1}{2} & \frac{1}{2} \end{bmatrix}$$

Hence  $2xy = \frac{1}{2}$ , that is,  $y = \frac{1}{4x}$ .  
The inverse of  $\begin{bmatrix} x & x \\ x & x \end{bmatrix}$  in  $G$  is  $\begin{bmatrix} \frac{1}{4x} & \frac{1}{4x} \\ \frac{1}{4x} & \frac{1}{4x} \end{bmatrix}$

# Abstract Algebra Exam Solutions

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## **Abstract Algebra Exam Solutions:**

**Abstract Algebra** Shaoqiang Deng, Fuhai Zhu, 2023-11-17 This book is translated from the Chinese version published by Science Press Beijing China in 2017 It was written for the Chern class in mathematics of Nankai University and has been used as the textbook for the course Abstract Algebra for this class for more than five years It has also been adapted in abstract algebra courses in several other distinguished universities across China The aim of this book is to introduce the fundamental theories of groups rings modules and fields and help readers set up a solid foundation for algebra theory The topics of this book are carefully selected and clearly presented This is an excellent mathematical exposition well suited as an advanced undergraduate textbook or for independent study The book includes many new and concise proofs of classical theorems along with plenty of basic as well as challenging exercises

A Friendly Introduction to Abstract Algebra Ryota Matsuura, 2022-07-06 A Friendly Introduction to Abstract Algebra offers a new approach to laying a foundation for abstract mathematics Prior experience with proofs is not assumed and the book takes time to build proof writing skills in ways that will serve students through a lifetime of learning and creating mathematics The author's pedagogical philosophy is that when students abstract from a wide range of examples they are better equipped to conjecture formalize and prove new ideas in abstract algebra Thus students thoroughly explore all concepts through illuminating examples before formal definitions are introduced The instruction in proof writing is similarly grounded in student exploration and experience Throughout the book the author carefully explains where the ideas in a given proof come from along with hints and tips on how students can derive those proofs on their own Readers of this text are not just consumers of mathematical knowledge Rather they are learning mathematics by creating mathematics The author's gentle helpful writing voice makes this text a particularly appealing choice for instructors and students alike The book's website has companion materials that support the active learning approaches in the book including in class modules designed to facilitate student exploration

**Abstract Algebra** Stephen Lovett, 2015-07-13 A Discovery Based Approach to Learning about Algebraic Structures Abstract Algebra Structures and Applications helps students understand the abstraction of modern algebra It emphasizes the more general concept of an algebraic structure while simultaneously covering applications The text can be used in a variety of courses from a one semester int

*Contemporary Abstract Algebra* Joseph Gallian, 2021-01-19 Contemporary Abstract Algebra Tenth Edition For more than three decades this classic text has been widely appreciated by instructors and students alike The book offers an enjoyable read and conveys and develops enthusiasm for the beauty of the topics presented It is comprehensive lively and engaging The author presents the concepts and methodologies of contemporary abstract algebra as used by working mathematicians computer scientists physicists and chemists Students will learn how to do computations and to write proofs A unique feature of the book are exercises that build the skill of generalizing a skill that students should develop but rarely do Applications are included to illustrate the utility of the abstract concepts Examples and exercises are the heart of the book

Examples elucidate the definitions theorems and proof techniques exercises facilitate understanding provide insight and develop the ability to do proofs The exercises often foreshadow definitions concepts and theorems to come Changes for the tenth edition include new exercises new examples new quotes and a freshening of the discussion portions The hallmark features of previous editions of the book are enhanced in this edition These include A good mixture of approximately 1900 computational and theoretical exercises including computer exercises that synthesize concepts from multiple chapters Approximately 300 worked out examples from routine computations to the challenging Many applications from scientific and computing fields and everyday life Historical notes and biographies that spotlight people and events Motivational and humorous quotations Numerous connections to number theory and geometry While many partial solutions and sketches for the odd numbered exercises appear in the book an Instructor's Solutions Manual written by the author has comprehensive solutions for all exercises and some alternative solutions to develop a critical thought and deeper understanding It is available from CRC Press only The Student Solution Manual has comprehensive solutions for all odd numbered exercises and many even numbered exercises

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Thinking Algebraically: An Introduction to Abstract Algebra Thomas Q. Sibley, 2021-06-08 Thinking Algebraically presents the insights of abstract algebra in a welcoming and accessible way It succeeds in combining the advantages of rings first and groups first approaches while avoiding the disadvantages After an historical overview the first chapter studies familiar examples and elementary properties of groups and rings simultaneously to motivate the modern understanding of algebra The text builds intuition for abstract algebra starting from high school algebra In addition to the standard number systems polynomials vectors and matrices the first chapter introduces modular arithmetic and dihedral groups The second chapter builds on these basic examples and properties enabling students to learn structural ideas common to rings and groups isomorphism homomorphism and direct product The third chapter investigates introductory group theory Later chapters delve more deeply into groups rings and fields including Galois theory and they also introduce other topics such as lattices The exposition is clear and conversational throughout The book has numerous exercises in each section as well as supplemental exercises and projects for each chapter Many examples and well over 100 figures provide support for learning Short biographies introduce the mathematicians who proved many of the results The book presents a pathway to algebraic thinking in a semester or year long algebra course

**Algebra-I** Rajendra Kumar Sharma, 2011 Algebra is a compulsory paper offered to the undergraduate students of Mathematics The majority of universities offer the subject as a two three year paper

or in two three semesters Algebra I A Basic Course in Abstract Algebra covers the topic required for a basic course

**Abstract Algebra** John A. Beachy, William D. Blair, 2006-01-05 Highly regarded by instructors in past editions for its sequencing of topics as well as its concrete approach slightly slower beginning pace and extensive set of exercises the latest edition of Abstract Algebra extends the thrust of the widely used earlier editions as it introduces modern abstract concepts only after a careful study of important examples Beachy and Blair's clear narrative presentation responds to the needs of inexperienced students who stumble over proof writing who understand definitions and theorems but cannot do the problems and who want more examples that tie into their previous experience The authors introduce chapters by indicating why the material is important and at the same time relating the new material to things from the students background and linking the subject matter of the chapter to the broader picture Instructors will find the latest edition pitched at a suitable level of difficulty and will appreciate its gradual increase in the level of sophistication as the student progresses through the book Rather than inserting superficial applications at the expense of important mathematical concepts the Beachy and Blair solid well organized treatment motivates the subject with concrete problems from areas that students have previously encountered namely the integers and polynomials over the real numbers Supplementary material for instructors and students available on the books Web site [www.math.niu.edu/beachy/abstract\\_algebra](http://www.math.niu.edu/beachy/abstract_algebra)

**My Search for Ramanujan** Ken Ono, Amir D.

Aczel, 2016-04-20 The son of a prominent Japanese mathematician who came to the United States after World War II Ken Ono was raised on a diet of high expectations and little praise Rebelling against his pressure cooker of a life Ken determined to drop out of high school to follow his own path To obtain his father's approval he invoked the biography of the famous Indian mathematical prodigy Srinivasa Ramanujan whom his father revered who had twice flunked out of college because of his single minded devotion to mathematics Ono describes his rocky path through college and graduate school interweaving Ramanujan's story with his own and telling how at key moments he was inspired by Ramanujan and guided by mentors who encouraged him to pursue his interest in exploring Ramanujan's mathematical legacy Picking up where others left off beginning with the great English mathematician G H Hardy who brought Ramanujan to Cambridge in 1914 Ono has devoted his mathematical career to understanding how in his short life Ramanujan was able to discover so many deep mathematical truths which Ramanujan believed had been sent to him as visions from a Hindu goddess And it was Ramanujan who was ultimately the source of reconciliation between Ono and his parents Ono's search for Ramanujan ranges over three continents and crosses paths with mathematicians whose lives span the globe and the entire twentieth century and beyond Along the way Ken made many fascinating discoveries The most important and surprising one of all was his own humanity

United States Air Force Academy United States Air Force Academy, 1968 Library of Congress Subject Headings

Library of Congress, Library of Congress. Subject Cataloging Division, Library of Congress. Office for Subject Cataloging Policy, 2013 Abstract Algebra Gregory T. Lee, 2018-04-13 This carefully written textbook offers a thorough introduction to

abstract algebra covering the fundamentals of groups rings and fields The first two chapters present preliminary topics such as properties of the integers and equivalence relations The author then explores the first major algebraic structure the group progressing as far as the Sylow theorems and the classification of finite abelian groups An introduction to ring theory follows leading to a discussion of fields and polynomials that includes sections on splitting fields and the construction of finite fields The final part contains applications to public key cryptography as well as classical straightedge and compass constructions Explaining key topics at a gentle pace this book is aimed at undergraduate students It assumes no prior knowledge of the subject and contains over 500 exercises half of which have detailed solutions provided **The William Lowell Putnam**

**Mathematical Competition 2001-2016: Problems, Solutions, and Commentary** Kiran S. Kedlaya, Daniel M.

Kane, Jonathan M. Kane, Evan M. O'Dorney, 2020-11-05 The William Lowell Putnam Mathematics Competition is the most prestigious undergraduate mathematics problem solving contest in North America with thousands of students taking part every year This volume presents the contest problems for the years 2001-2016 The heart of the book is the solutions these include multiple approaches drawn from many sources plus insights into navigating from the problem statement to a solution There is also a section of hints to encourage readers to engage deeply with the problems before consulting the solutions The authors have a distinguished history of engagement with and preparation of students for the Putnam and other mathematical competitions Collectively they have been named Putnam Fellow top five finisher ten times Kiran Kedlaya also maintains the online Putnam Archive Library of Congress Subject Headings Library of Congress. Cataloging Policy and Support Office, 2007

**Linear Algebra As An Introduction To Abstract Mathematics** Bruno Nachtergaele, Anne Schilling, Isaiah Lankham, 2015-11-30 This is an introductory textbook designed for undergraduate mathematics majors with an emphasis on abstraction and in particular the concept of proofs in the setting of linear algebra Typically such a student would have taken calculus though the only prerequisite is suitable mathematical grounding The purpose of this book is to bridge the gap between the more conceptual and computational oriented undergraduate classes to the more abstract oriented classes The book begins with systems of linear equations and complex numbers then relates these to the abstract notion of linear maps on finite dimensional vector spaces and covers diagonalization eigenspaces determinants and the Spectral Theorem Each chapter concludes with both proof writing and computational exercises **Elements of Abstract Algebra** Allan

Clark, 2012-07-06 Lucid coverage of the major theories of abstract algebra with helpful illustrations and exercises included throughout Unabridged corrected republication of the work originally published 1971 Bibliography Index Includes 24 tables and figures **Abstract Algebra** Thomas W. Hungerford, 1997 **Cracking the GRE Math Subject Test** Steven A.

Leduc, 2002 The Princeton Review realizes that acing the GRE Math Test is very different from getting straight A's in school We don't try to teach you everything there is to know about math only the techniques you'll need to score higher on the test There's a big difference In *Cracking the GRE Math Test* we'll teach you how to think like the test writers and eliminate

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**Teaching and Learning Mathematics Online** James P. Howard, II, John F. Beyers, 2020-05-10

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