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1. Developing the skills necessary to read and practice abstract mathematics.
2. Understanding the concept of proof, and becoming acquainted with several proof techniques.
3. Learning what sort of questions mathematicians ask, what excites them, and what they are looking for.
4. Introducing upper-division mathematics by giving a taste of what is covered in several areas of the subject.

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Buy Linear Algebra: An Introduction to Abstract Mathematics (Undergraduate Texts in Mathematics) Softcover reprint of the original 1st ed. 1993 by Valenza, Robert J. (ISBN: 9781461269403) from Amazon's Book Store. Everyday low prices and free delivery on eligible orders.

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Math 347 tutoring session (run by graduate students) from 4-6 pm in Altgeld room 347 on M,T,W,Th. Classroom and Class times: Altgeld Hall 243, MWF 1-1:50 pm. Textbook and class notes: The textbook is a Course Packet available at the bookstore. The title is An Introduction to Abstract Mathematics by Donaldson and Pantano. Toward the end of the ...

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Abstract: This book is an introduction to the theory of calculus in the style of inquiry-based learning. The text guides students through the process of making mathematical ideas rigorous, from investigations and problems to definitions and proofs.

~~Explorations in Analysis, Topology, and Dynamics: An ...~~

This was the textbook for an honors course in linear algebra I took my second semester in college, and my introduction to real, abstract mathematics-- also one of the reasons I switched from chemistry to math. Without this book, I might never have realized how much I love the subject, nor gone on to study it in depth.

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Abstract Sets and Finite Ordinals: An Introduction to the Study of Set Theory (Dover Books on Mathematics)

~~An Introduction to Abstract Mathematics - AbeBooks~~  
Chapters 1-5 introduce the fundamentals of abstract mathematics and chapters 6-8 apply the ideas and techniques, placing the earlier material in a real context. Readers' interest is continually piqued by the use of clear explanations, practical examples, discussion and discovery exercises, and historical comments.

~~Amazon.com: An Introduction to Abstract Mathematics ...~~  
1.1 Introduction This book aims to bridge the gap between

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the mainly computation-oriented lower division undergraduate classes and the abstract mathematics encountered in more advanced mathematics courses. The goal of this book is threefold: 1. You will learn Linear Algebra, which is one of the most widely used mathematical theories around.

~~Linear Algebra As an Introduction to Abstract Mathematics~~  
An Introduction to Abstract Mathematics: Bond, Robert J., Keane, William J.: Amazon.sg: Books

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Introduction to Abstract Mathematics focuses on the principles, approaches, and operations involved in abstract

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mathematics, including metric spaces, sets, axiom systems, and open sentences. The book first offers information on logic and set theory, natural numbers, and integers and rational numbers. Discussions focus on rational numbers and ordered fields, ordering, arithmetic, axiom systems and methods of proof, functions of kindred matters, ordered pairs and relations, sets, and ...

## ~~Introduction to Abstract Mathematics—1st Edition~~

About this Textbook. About this Textbook. Based on lectures given at Claremont McKenna College, this text constitutes a substantial, abstract introduction to linear algebra. The presentation emphasizes the structural elements over the computational - for example by connecting matrices to linear

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transformations from the outset - and prepares the student for further study of abstract mathematics.

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Introduction. Based on lectures given at Claremont McKenna College, this text constitutes a substantial, abstract introduction to linear algebra. The presentation emphasizes the structural elements over the computational - for example by connecting matrices to linear transformations from the outset - and prepares the student for further study of abstract mathematics.

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Sets, Functions, and Logic: An Introduction to Abstract

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Mathematics, Third Edition Chapman Hall/CRC Mathematics Series: Author: Keith Devlin: Edition: 3, revised: Publisher: CRC Press, 2003: ISBN:...

~~Sets, Functions, and Logic: An Introduction to Abstract ...~~  
by Andrew Wohlgemuth, Introduction To Proof In Abstract Mathematics Book available in PDF, EPUB, Mobi Format. Download Introduction To Proof In Abstract Mathematics books , This undergraduate text teaches students what constitutes an acceptable proof, and it develops their ability to do proofs of routine problems as well as those requiring creative insights. 1990 edition.

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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

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Spectral Theorem. Each chapter concludes with both proof-writing and computational exercises.

Based on lectures given at Claremont McKenna College, this text constitutes a substantial, abstract introduction to linear algebra. The presentation emphasizes the structural elements over the computational - for example by connecting matrices to linear transformations from the outset - and prepares the student for further study of abstract mathematics. Uniquely among algebra texts at this level, it introduces group theory early in the discussion, as an example of the rigorous development of informal axiomatic systems.

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This undergraduate text teaches students what constitutes an acceptable proof, and it develops their ability to do proofs of routine problems as well as those requiring creative insights. 1990 edition.

Introduction to Abstract Mathematics focuses on the principles, approaches, and operations involved in abstract mathematics, including metric spaces, sets, axiom systems, and open sentences. The book first offers information on logic and set theory, natural numbers, and integers and rational numbers. Discussions focus on rational numbers and ordered fields, ordering, arithmetic, axiom systems and methods of proof, functions of kindred matters, ordered pairs and relations, sets, and statements and open sentences.

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The text then examines real and complex numbers, metric spaces, and limits. Topics include generalized limits, continuous functions, openness, closedness, and neighborhood systems, definition and basic properties, and construction of  $\mathbb{R}$ . The publication is a vital reference for mathematicians and students interested in abstract mathematics.

This book introduces students to the world of advanced mathematics using algebraic structures as a unifying theme. Having no prerequisites beyond precalculus and an interest in abstract reasoning, the book is suitable for students of math education, computer science or physics who are looking for an easy-going entry into discrete mathematics,

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induction and recursion, groups and symmetry, and plane geometry. In its presentation, the book takes special care to forge linguistic and conceptual links between formal precision and underlying intuition, tending toward the concrete, but continually aiming to extend students' comfort with abstraction, experimentation, and non-trivial computation. The main part of the book can be used as the basis for a transition-to-proofs course that balances theory with examples, logical care with intuitive plausibility, and has sufficient informality to be accessible to students with disparate backgrounds. For students and instructors who wish to go further, the book also explores the Sylow theorems, classification of finitely-generated Abelian groups, and discrete groups of Euclidean plane transformations.

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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-

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writing and computational exercises.

This is a book about mathematics and mathematical thinking. It is intended for the serious learner who is interested in studying some deductive strategies in the context of a variety of elementary mathematical situations. No background beyond single-variable calculus is presumed.

Beyond calculus, the world of mathematics grows increasingly abstract and places new and challenging demands on those venturing into that realm. As the focus of calculus instruction has become increasingly computational, it leaves many students ill prepared for more advanced work that requires the ability to understand and construct proofs.

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Introductory Concepts for Abstract Mathematics helps readers bridge that gap. It teaches them to work with abstract ideas and develop a facility with definitions, theorems, and proofs. They learn logical principles, and to justify arguments not by what seems right, but by strict adherence to principles of logic and proven mathematical assertions - and they learn to write clearly in the language of mathematics. The author achieves these goals through a methodical treatment of set theory, relations and functions, and number systems, from the natural to the real. He introduces topics not usually addressed at this level, including the remarkable concepts of infinite sets and transfinite cardinal numbers. Introductory Concepts for Abstract Mathematics takes readers into the world beyond

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calculus and ensures their voyage to that world is successful. It imparts a feeling for the beauty of mathematics and its internal harmony, and inspires an eagerness and increased enthusiasm for moving forward in the study of mathematics.

The goal of this book is to show students how mathematicians think and to glimpse some of the fascinating things they think about. Bond and Keane develop students' ability to do abstract mathematics by teaching the form of mathematics in the context of real and elementary mathematics. Students learn the fundamentals of mathematical logic; how to read and understand definitions, theorems, and proofs; and how to assimilate abstract ideas and communicate them in written form. Students will learn

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to write mathematical proofs coherently and correctly.

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