Algebra 1 Course

Scope and Sequence

Functions
1st Six Weeks
- distance vs time graphs
- function notation
- multiple representations
- domain and range
- discrete vs continuous
- linear vs nonlinear
- linear regression
- correlation coefficient
- residuals
- transformations

Sequences and Systems
2nd Six Weeks
- arithmetic sequences
- Fibonacci sequences
- absolute value functions
- transformations: absolute value
- parent functions
- Linear piecewise functions
- Linear systems - applications
- Linear systems - graphing
- Linear systems - algebraic
- Linear functions: f(x) = g(x)

Inequalities and Exponentials
3rd Six Weeks
- solving inequalities
- linear inequalities
- systems of linear inequalities
- nonlinear inequalities
- geometric sequences
- exponential functions
- transformations: exponential
- exponential growth/decay
- applications
- average rate of change

Quadratics and Polynomials
4th Six Weeks
- graphing quadratics
- analyzing quadratics
- transforming quadratics
- applications
- factoring quadratics
- completing the square
- quadratic formula
- polynomials
- operations w/polynomials

Radicals and Real Numbers
5th Six Weeks
- square root functions
- transform square root functions
- simplify square roots
- rational exponents
- rates and areas
- literal equations
- real numbers
- rational vs irrational
- dimensional analysis

Statistics*
6th Six Weeks
- gathering, recording data
- box & dot plots, histograms
- skewed vs symmetric
- measures of center
- measures of spread
- Outliers
- causation vs. correlation
- two way tables
- relative frequency

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Algebra First Course:

A First Course in Abstract Algebra John B. Fraleigh,Victor J. Katz,2003 Considered a classic by many A First Course in Abstract Algebra is an in depth introduction to abstract algebra Focused on groups rings and fields this text gives students a firm foundation for more specialized work by emphasizing an understanding of the nature of algebraic structures

Abstract Algebra Stephen Lovett,2022-07-05 When a student of mathematics studies abstract algebra he or she inevitably faces questions in the vein of What is abstract algebra or What makes it abstract Algebra in its broadest sense describes a way of thinking about classes of sets equipped with binary operations In high school algebra a student explores properties of operations and on real numbers Abstract algebra studies properties of operations without specifying what types of number or object we work with Any theorem established in the abstract context holds not only for real numbers but for every possible algebraic structure that has operations with the stated properties This textbook intends to serve as a first course in abstract algebra The selection of topics serves both of the common trends in such a course a balanced introduction to groups rings and fields or a course that primarily emphasizes group theory The writing style is student centered conscientiously motivating definitions and offering many illustrative examples Various sections or sometimes just examples or exercises introduce applications to geometry number theory cryptography and many other areas This book offers a unique feature in the lists of projects at the end of each section the author does not view projects as just something extra or cute but rather an opportunity for a student to work on and demonstrate their potential for open ended investigation The projects ideas come in two flavors investigative or expository The investigative projects briefly present a topic and posed open ended questions that invite the student to explore the topic asking and to trying to answer their own questions Expository projects invite the student to explore a topic with algebraic content or pertain to a particular mathematician s work through responsible research The exercises challenge the student to prove new results using the theorems presented in the text The student then becomes an active participant in the development of the field *A First Course in Abstract Algebra* John Blackmon Fraleigh,1989 **Abstract Algebra** Larry Joel Goldstein,1973 **A First Course in Abstract Algebra** Hiram Paley,Paul M. Weichsel,1966 **A First Course in Abstract Algebra** J.B. Fraleigh,1976 *A First Course in Linear Algebra* Robert A. Beezer,2009-09-01 *First Course in Algebra* Herbert Edwin Hawkes,William Arthur Luby,Frank Charles Touton,1917 **A First Course in Abstract Algebra** Joseph J. Rotman,2000 For one semester or two semester undergraduate courses in Abstract Algebra This new edition has been completely rewritten The four chapters from the first edition are expanded from 257 pages in first edition to 384 in the second Two new chapters have been added the first 3 chapters are a text for a one semester course the last 3 chapters are a text for a second semester The new Chapter 5 Groups II contains the fundamental theorem of finite abelian groups the Sylow theorems the Jordan Holder theorem and solvable groups and presentations of groups including a careful construction of free groups The new Chapter 6 Commutative Rings II

introduces prime and maximal ideals unique factorization in polynomial rings in several variables noetherian rings and the Hilbert basis theorem affine varieties including a proof of Hilbert s Nullstellensatz over the complex numbers and irreducible components and Grobner bases including the generalized division algorithm and Buchberger s algorithm   Abstract Algebra Dan Saracino,2008-09-02 The Second Edition of this classic text maintains the clear exposition logical organization and accessible breadth of coverage that have been its hallmarks It plunges directly into algebraic structures and incorporates an unusually large number of examples to clarify abstract concepts as they arise Proofs of theorems do more than just prove the stated results Saracino examines them so readers gain a better impression of where the proofs come from and why they proceed as they do Most of the exercises range from easy to moderately difficult and ask for understanding of ideas rather than flashes of insight The new edition introduces five new sections on field extensions and Galois theory increasing its versatility by making it appropriate for a two semester as well as a one semester course   **Linear Algebra** Tom M. Apostol,2014-08-22 Developed from the author s successful two volume Calculus text this book presents Linear Algebra without emphasis on abstraction or formalization To accommodate a variety of backgrounds the text begins with a review of prerequisites divided into precalculus and calculus prerequisites It continues to cover vector algebra analytic geometry linear spaces determinants linear differential equations and more   *A First Course in Abstract Algebra* Hiram Paley,Paul M. Weichsel,1966   *First Course in Linear Algebra* Phani Bhushan Bhattacharya,S. K. Jain,S. R. Nagpaul,1983   A First Course in Abstract Algebra Philip J. Higgins,1975   **A First Course in Algebra** WEBSTER WELLS,2025-05-22 A First Course in Algebra originally published in 1908 offers a comprehensive introduction to algebraic principles and problem solving techniques Designed for students beginning their study of algebra this text provides a systematic approach to understanding fundamental concepts Webster Wells a prominent mathematics educator presents clear explanations and numerous examples to aid comprehension The book covers essential topics such as equations polynomials factoring and radicals laying a solid foundation for further mathematical studies This edition retains the original content ensuring that readers experience the timeless methods of teaching algebra that have proven effective for generations This book is valuable for students educators and anyone interested in the historical development of mathematical education This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it This work was reproduced from the original artifact and remains as true to the original work as possible Therefore you will see the original copyright references library stamps as most of these works have been housed in our most important libraries around the world and other notations in the work This work is in the public domain in the United States of America and possibly other nations Within the United States you may freely copy and distribute this work as no entity individual or corporate has a copyright on the body of the work As a reproduction of a historical artifact this work may contain missing or blurred pages poor pictures errant marks etc Scholars believe and we concur that this work is important enough to be preserved

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