

ALGEBRA TWO ONLINE TEXTBOOK

ALGEBRA TWO ONLINE TEXTBOOK: YOUR GUIDE TO MASTERING ADVANCED ALGEBRA

NAVIGATING THE COMPLEX WORLD OF ALGEBRA II CAN FEEL DAUNTING, ESPECIALLY WHEN YOU'RE FACING IT ALONE. BUT WHAT IF YOU HAD ACCESS TO A COMPREHENSIVE, READILY AVAILABLE RESOURCE THAT COULD GUIDE YOU THROUGH EVERY EQUATION, THEOREM, AND CONCEPT? THIS POST DIVES DEEP INTO THE WORLD OF ALGEBRA TWO ONLINE TEXTBOOKS, EXPLORING THEIR BENEFITS, FEATURES, AND HOW TO CHOOSE THE PERFECT ONE FOR YOUR NEEDS. WE'LL EXAMINE VARIOUS OPTIONS, DISCUSS KEY FEATURES TO LOOK FOR, AND ULTIMATELY EQUIP YOU WITH THE KNOWLEDGE TO CONFIDENTLY TACKLE ADVANCED ALGEBRA. WE'LL EVEN PROVIDE A SAMPLE TEXTBOOK OUTLINE TO GIVE YOU A CLEARER PICTURE OF WHAT TO EXPECT. PREPARE TO UNLOCK YOUR ALGEBRAIC POTENTIAL!

WHY CHOOSE AN ONLINE ALGEBRA TWO TEXTBOOK?

THE TRADITIONAL TEXTBOOK MODEL IS EVOLVING RAPIDLY. ONLINE TEXTBOOKS OFFER SEVERAL ADVANTAGES OVER THEIR PHYSICAL COUNTERPARTS:

ACCESSIBILITY: ACCESS YOUR TEXTBOOK ANYTIME, ANYWHERE WITH AN INTERNET CONNECTION. NO MORE LUGGING HEAVY BOOKS TO AND FROM SCHOOL OR SCRAMBLING TO FIND A SPECIFIC CHAPTER.

COST-EFFECTIVENESS: ONLINE TEXTBOOKS ARE OFTEN SIGNIFICANTLY CHEAPER THAN THEIR PRINT VERSIONS, SAVING YOU MONEY.

INTERACTIVE FEATURES: MANY ONLINE TEXTBOOKS INCORPORATE INTERACTIVE EXERCISES, SIMULATIONS, AND VIDEOS TO ENHANCE LEARNING AND UNDERSTANDING.

PERSONALIZED LEARNING: SOME PLATFORMS OFFER ADAPTIVE LEARNING FEATURES THAT TAILOR THE CONTENT TO YOUR INDIVIDUAL PACE AND LEARNING STYLE.

SEARCHABILITY: QUICKLY FIND SPECIFIC TOPICS, FORMULAS, OR DEFINITIONS USING THE TEXTBOOK'S SEARCH FUNCTION – FAR EASIER THAN FLIPPING THROUGH HUNDREDS OF PAGES.

UPDATED CONTENT: ONLINE TEXTBOOKS CAN BE EASILY UPDATED, ENSURING YOU HAVE ACCESS TO THE MOST CURRENT INFORMATION AND TECHNIQUES.

KEY FEATURES TO LOOK FOR IN AN ONLINE ALGEBRA TWO TEXTBOOK

WHEN SELECTING YOUR ONLINE ALGEBRA TWO TEXTBOOK, CONSIDER THESE CRUCIAL FEATURES:

COMPREHENSIVE COVERAGE: ENSURE THE TEXTBOOK COVERS ALL THE ESSENTIAL TOPICS OF ALGEBRA II, INCLUDING FUNCTIONS, POLYNOMIALS, QUADRATIC EQUATIONS, EXPONENTS AND LOGARITHMS, SEQUENCES AND SERIES, CONIC SECTIONS, AND MORE.

CLEAR EXPLANATIONS AND EXAMPLES: THE TEXTBOOK SHOULD PROVIDE CLEAR, CONCISE EXPLANATIONS OF CONCEPTS, SUPPORTED BY NUMEROUS WORKED-OUT EXAMPLES TO ILLUSTRATE THE APPLICATION OF FORMULAS AND TECHNIQUES.

PRACTICE PROBLEMS AND EXERCISES: AMPLE PRACTICE PROBLEMS ARE VITAL FOR MASTERING ALGEBRA. LOOK FOR A TEXTBOOK WITH A WIDE RANGE OF EXERCISES, VARYING IN DIFFICULTY, AND IDEALLY WITH SOLUTIONS OR ANSWER KEYS.

INTERACTIVE ELEMENTS: INTERACTIVE EXERCISES, QUIZZES, AND SIMULATIONS CAN SIGNIFICANTLY IMPROVE UNDERSTANDING AND ENGAGEMENT.

ASSESSMENT TOOLS: THE TEXTBOOK SHOULD OFFER TOOLS TO TRACK YOUR PROGRESS AND IDENTIFY AREAS NEEDING IMPROVEMENT. THIS COULD INCLUDE SELF-ASSESSMENT QUIZZES, PRACTICE TESTS, OR PROGRESS REPORTS.

SUPPORT AND RESOURCES: ACCESS TO HELPFUL RESOURCES LIKE VIDEO TUTORIALS, ONLINE FORUMS, OR INSTRUCTOR SUPPORT CAN BE INVALUABLE WHEN FACING CHALLENGES.

USER-FRIENDLY INTERFACE: THE TEXTBOOK'S NAVIGATION AND DESIGN SHOULD BE INTUITIVE AND EASY TO USE. A CLUTTERED OR CONFUSING INTERFACE CAN HINDER THE LEARNING PROCESS.

COMPATIBILITY: ENSURE THE TEXTBOOK IS COMPATIBLE WITH YOUR DEVICES (COMPUTER, TABLET, SMARTPHONE).

ACCESSIBILITY FEATURES: LOOK FOR OPTIONS LIKE TEXT-TO-SPEECH, ADJUSTABLE FONT SIZES, AND OTHER FEATURES THAT CATER TO DIVERSE LEARNING NEEDS.

SAMPLE ALGEBRA TWO ONLINE TEXTBOOK OUTLINE: "ALGEBRA II UNVEILED"

THIS HYPOTHETICAL TEXTBOOK PROVIDES A FRAMEWORK FOR WHAT A COMPREHENSIVE ONLINE ALGEBRA II RESOURCE MIGHT INCLUDE.

I. INTRODUCTION:

WELCOME TO ALGEBRA II!

A BRIEF OVERVIEW OF THE COURSE AND ITS OBJECTIVES.

PRE-REQUISITES AND REVIEW OF ESSENTIAL ALGEBRA I CONCEPTS.

II. FUNCTIONS AND THEIR PROPERTIES:

DEFINING FUNCTIONS AND THEIR REPRESENTATIONS (GRAPHS, TABLES, EQUATIONS).

DOMAIN AND RANGE.

FUNCTION OPERATIONS (ADDITION, SUBTRACTION, MULTIPLICATION, DIVISION, COMPOSITION).

INVERSE FUNCTIONS.

TYPES OF FUNCTIONS (LINEAR, QUADRATIC, POLYNOMIAL, RATIONAL, EXPONENTIAL, LOGARITHMIC, ETC.).

III. POLYNOMIAL FUNCTIONS:

OPERATIONS WITH POLYNOMIALS (ADDITION, SUBTRACTION, MULTIPLICATION, DIVISION).

FACTORING POLYNOMIALS.

SOLVING POLYNOMIAL EQUATIONS.

REMAINDER AND FACTOR THEOREMS.

GRAPHING POLYNOMIAL FUNCTIONS.

REAL AND COMPLEX ROOTS.

IV. QUADRATIC EQUATIONS AND FUNCTIONS:

SOLVING QUADRATIC EQUATIONS (FACTORING, QUADRATIC FORMULA, COMPLETING THE SQUARE).

GRAPHING QUADRATIC FUNCTIONS (PARABOLAS).

VERTEX FORM, STANDARD FORM, INTERCEPT FORM.

APPLICATIONS OF QUADRATIC EQUATIONS (PROJECTILE MOTION, OPTIMIZATION PROBLEMS).

V. EXPONENTIAL AND LOGARITHMIC FUNCTIONS:

EXPONENTIAL FUNCTIONS AND THEIR PROPERTIES.

LOGARITHMIC FUNCTIONS AND THEIR PROPERTIES.

SOLVING EXPONENTIAL AND LOGARITHMIC EQUATIONS.

APPLICATIONS OF EXPONENTIAL AND LOGARITHMIC FUNCTIONS (GROWTH AND DECAY MODELS, COMPOUND INTEREST).

VI. SEQUENCES AND SERIES:

ARITHMETIC AND GEOMETRIC SEQUENCES.

ARITHMETIC AND GEOMETRIC SERIES.

SUMMATION NOTATION.

INFINITE GEOMETRIC SERIES.

VII. CONIC SECTIONS:

CIRCLES, ELLIPSES, PARABOLAS, AND HYPERBOLAS.

EQUATIONS AND GRAPHS OF CONIC SECTIONS.

APPLICATIONS OF CONIC SECTIONS.

VIII. SYSTEMS OF EQUATIONS AND INEQUALITIES:

SOLVING SYSTEMS OF LINEAR EQUATIONS (SUBSTITUTION, ELIMINATION, MATRICES).

SOLVING SYSTEMS OF NON-LINEAR EQUATIONS.

GRAPHING SYSTEMS OF INEQUALITIES.
LINEAR PROGRAMMING.

IX. CONCLUSION:

REVIEW OF KEY CONCEPTS.
TIPS FOR SUCCESS IN FUTURE MATH COURSES.
RESOURCES FOR FURTHER LEARNING.

DETAILED EXPLANATION OF OUTLINE POINTS:

I. INTRODUCTION: THIS SECTION SETS THE STAGE, OUTLINING THE COURSE OBJECTIVES AND REFRESHING PREREQUISITE KNOWLEDGE TO ENSURE A STRONG FOUNDATION. IT MIGHT INCLUDE DIAGNOSTIC QUIZZES TO IDENTIFY AREAS WHERE STUDENTS NEED EXTRA REVIEW.

II. FUNCTIONS AND THEIR PROPERTIES: THIS IS A CORNERSTONE OF ALGEBRA II. STUDENTS LEARN TO REPRESENT FUNCTIONS IN VARIOUS WAYS, UNDERSTAND THEIR PROPERTIES (DOMAIN, RANGE), AND PERFORM OPERATIONS ON THEM. THIS SECTION IS HEAVILY RELIANT ON VISUAL REPRESENTATIONS, MAKING INTERACTIVE GRAPHS A VALUABLE TOOL.

III. POLYNOMIAL FUNCTIONS: THIS CHAPTER DELVES INTO THE INTRICACIES OF POLYNOMIALS, COVERING MANIPULATION, FACTORING, SOLVING EQUATIONS, AND UNDERSTANDING THEIR GRAPHICAL REPRESENTATIONS. INTERACTIVE TOOLS FOR FACTORING AND GRAPHING POLYNOMIALS WOULD GREATLY ENHANCE UNDERSTANDING.

IV. QUADRATIC EQUATIONS AND FUNCTIONS: A SIGNIFICANT PORTION OF ALGEBRA II FOCUSES ON QUADRATIC FUNCTIONS. THE TEXTBOOK SHOULD OFFER MULTIPLE METHODS FOR SOLVING QUADRATIC EQUATIONS AND VISUALLY REPRESENT THE PARABOLAS THROUGH INTERACTIVE GRAPHING TOOLS.

V. EXPONENTIAL AND LOGARITHMIC FUNCTIONS: THIS SECTION EXPLORES THE INVERSE RELATIONSHIP BETWEEN EXPONENTIAL AND LOGARITHMIC FUNCTIONS, EMPHASIZING THEIR PROPERTIES AND APPLICATIONS IN REAL-WORLD SCENARIOS LIKE COMPOUND INTEREST AND POPULATION GROWTH.

VI. SEQUENCES AND SERIES: STUDENTS LEARN TO IDENTIFY PATTERNS IN SEQUENCES AND CALCULATE SUMS OF SERIES, DEVELOPING CRUCIAL SKILLS FOR MORE ADVANCED MATHEMATICAL CONCEPTS.

VII. CONIC SECTIONS: THIS SECTION INTRODUCES THE GEOMETRY OF CONIC SECTIONS (CIRCLES, ELLIPSES, PARABOLAS, HYPERBOLAS), EXPLORING THEIR EQUATIONS AND GRAPHS. INTERACTIVE TOOLS THAT ALLOW STUDENTS TO MANIPULATE PARAMETERS AND VISUALIZE THE RESULTING CHANGES WOULD BE PARTICULARLY BENEFICIAL.

VIII. SYSTEMS OF EQUATIONS AND INEQUALITIES: THIS CHAPTER COVERS SOLVING SYSTEMS OF EQUATIONS AND INEQUALITIES USING DIFFERENT METHODS, INCLUDING GRAPHICAL REPRESENTATIONS. INTERACTIVE TOOLS FOR SOLVING SYSTEMS AND VISUALIZING INEQUALITIES WOULD GREATLY AID LEARNING.

IX. CONCLUSION: THIS SECTION SUMMARIZES THE KEY CONCEPTS COVERED THROUGHOUT THE TEXTBOOK, OFFERING GUIDANCE FOR FUTURE STUDIES AND PROVIDING RESOURCES FOR CONTINUED LEARNING. THIS MIGHT INCLUDE LINKS TO FURTHER ONLINE RESOURCES AND PRACTICE PROBLEMS.

FREQUENTLY ASKED QUESTIONS (FAQs)

1. WHAT IS THE BEST ONLINE ALGEBRA TWO TEXTBOOK? THE "BEST" TEXTBOOK DEPENDS ON YOUR INDIVIDUAL LEARNING STYLE AND NEEDS. CONSIDER THE FEATURES DISCUSSED ABOVE TO FIND ONE THAT SUITS YOU BEST.

1. ARE ONLINE ALGEBRA TWO TEXTBOOKS FREE? SOME FREE RESOURCES ARE AVAILABLE, BUT MANY COMPREHENSIVE ONLINE TEXTBOOKS REQUIRE A PURCHASE OR SUBSCRIPTION.

1. DO ONLINE ALGEBRA TWO TEXTBOOKS PROVIDE FEEDBACK ON ASSIGNMENTS? THIS VARIES BY TEXTBOOK. SOME PROVIDE INSTANT FEEDBACK, WHILE OTHERS MAY REQUIRE SUBMITTING WORK TO AN INSTRUCTOR.
1. CAN I USE AN ONLINE ALGEBRA TWO TEXTBOOK FOR SELF-STUDY? ABSOLUTELY! MANY STUDENTS SUCCESSFULLY USE ONLINE TEXTBOOKS FOR SELF-PACED LEARNING.
1. HOW DO I ACCESS AN ONLINE ALGEBRA TWO TEXTBOOK? ACCESS IS TYPICALLY PROVIDED THROUGH A WEBSITE OR APP AFTER PURCHASING OR SUBSCRIBING.
1. ARE ONLINE ALGEBRA TWO TEXTBOOKS COMPATIBLE WITH ALL DEVICES? MOST ARE COMPATIBLE WITH COMPUTERS, TABLETS, AND SMARTPHONES, BUT CHECK THE SPECIFIC TEXTBOOK'S REQUIREMENTS.
1. DO ONLINE ALGEBRA TWO TEXTBOOKS OFFER VIDEO LECTURES? SOME DO, BUT IT'S NOT A UNIVERSAL FEATURE; CHECK THE TEXTBOOK'S DESCRIPTION.
1. CAN I DOWNLOAD AN ONLINE ALGEBRA TWO TEXTBOOK FOR OFFLINE USE? THIS DEPENDS ON THE TEXTBOOK; SOME ALLOW DOWNLOADING, WHILE OTHERS REQUIRE AN INTERNET CONNECTION.
1. WHAT IF I GET STUCK ON A PROBLEM IN AN ONLINE ALGEBRA TWO TEXTBOOK? MANY TEXTBOOKS OFFER HELP FEATURES, SUCH AS ONLINE FORUMS OR VIDEO TUTORIALS. CONSIDER SEEKING HELP FROM A TUTOR OR TEACHER IF NEEDED.

RELATED ARTICLES:

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4. ALGEBRA II STUDY GUIDE: A COMPREHENSIVE GUIDE FOR EXAM PREPARATION.
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6. ALGEBRA II VOCABULARY: DEFINING KEY TERMS AND CONCEPTS.
7. UNDERSTANDING QUADRATIC EQUATIONS IN ALGEBRA II: A DEEP DIVE INTO QUADRATIC FUNCTIONS.

8. MASTERING LOGARITHMS IN ALGEBRA II: A COMPREHENSIVE GUIDE TO LOGARITHMIC FUNCTIONS.

9. ALGEBRA II RESOURCES FOR STUDENTS: A LIST OF HELPFUL WEBSITES AND TOOLS.

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algebra two online textbook: Algebra II Alexey L. Gorodentsev, 2017-02-12 This book is the second volume of an intensive "Russian-style" two-year undergraduate course in abstract algebra, and introduces readers to the basic algebraic structures – fields, rings, modules, algebras, groups, and categories – and explains the main principles of and methods for working with them. The course covers substantial areas of advanced combinatorics, geometry, linear and multilinear algebra, representation theory, category theory, commutative algebra, Galois theory, and algebraic geometry – topics that are often overlooked in standard undergraduate courses. This textbook is based on courses the author has conducted at the Independent University of Moscow and at the Faculty of Mathematics in the Higher School of Economics. The main content is complemented by a wealth of exercises for class discussion, some of which include comments and hints, as well as problems for independent study.

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algebra two online textbook: Algebra 2, Student Edition McGraw Hill, 2002-03-06 Glencoe Algebra 2 strengthens student understanding and provides the tools students need to succeed , from the first day your students begin to learn the vocabulary of algebra until the day they take final exams and standardized tests.

algebra two online textbook: *Algebra II For Dummies* Mary Jane Sterling, 2018-12-12 *Algebra II For Dummies*, 2nd Edition (9781119543145) was previously published as *Algebra II For Dummies*, 2nd Edition (9781119090625). While this version features a new Dummies cover and design, the content is the same as the prior release and should not be considered a new or updated product. Your complete guide to acing Algebra II Do quadratic equations make you queasy? Does the mere thought of logarithms make you feel lethargic? You're not alone! Algebra can induce anxiety in the best of us, especially for the masses that have never counted math as their forte. But here's the good news: you no longer have to suffer through statistics, sequences, and series alone. *Algebra II For Dummies* takes the fear out of this math course and gives you easy-to-follow, friendly guidance on everything you'll encounter in the classroom and arms you with the skills and confidence you need to score high at exam time. Gone are the days that Algebra II is a subject that only the serious 'math' students need to worry about. Now, as the concepts and material covered in a typical Algebra II course are consistently popping up on standardized tests like the SAT and ACT, the demand for advanced guidance on this subject has never been more urgent. Thankfully, this new edition of *Algebra II For Dummies* answers the call with a friendly and accessible approach to this often-intimidating subject, offering you a closer look at exponentials, graphing inequalities, and other topics in a way you can understand. Examine exponentials like a pro Find out how to graph inequalities Go beyond your Algebra I knowledge Ace your Algebra II exams with ease Whether you're looking to increase your score on a standardized test or simply succeed in your Algebra II course, this friendly guide makes it possible.

algebra two online textbook: *Algebra and Trigonometry* Jay P. Abramson, Valeree Falduto, Rachael Gross (Mathematics teacher), David Lippman, Rick Norwood, Melonie Rasmussen, Nicholas Belloit, Jean-Marie Magnier, Harold Whipple, Christina Fernandez, 2015-02-13 The text is suitable for a typical introductory algebra course, and was developed to be used flexibly. While the breadth of topics may go beyond what an instructor would cover, the modular approach and the richness of content ensures that the book meets the needs of a variety of programs.--Page 1.

algebra two online textbook: *Big Ideas Math* Ron Larson, Laurie Boswell, 2018

algebra two online textbook: *Principles of Algebra 2 (Teacher Guide)* Katherine Hannon, 2021-04-22 Algebra doesn't have to consist of solving hundreds of apparently meaningless problems! These worksheets, while they include abstract problems to help the student practice the skills, also include real-life problems that allow the student to remember the purpose of what they're learning, give them a chance to explore God's handiwork, and equip them to apply math outside of a textbook. Easy-to-use daily schedule Carefully graduated problems to help students learn the material Built-in review of concepts Problems that let the students apply algebra to real-life settings Perforated pages to tear out and hand students Chapter quizzes and quarter tests, along with a final exam

algebra two online textbook: *Algebra 2* Ron Larson, Holt McDougal, 2009-12-31 Equations and inequalities -- Linear equations and functions -- Linear systems and matrices -- Quadratic functions and factoring -- Polynomials and polynomial functions -- Rational exponents and radical functions -- Exponential and logarithmic functions -- Rational functions -- Quadratic relations and conic sections -- Counting methods and probability -- Data analysis and statistics -- Sequences and series -- Trigonometric ratios and functions -- Trigonometric graphs, identities, and equations.

algebra two online textbook: *Intermediate Algebra 2e* Lynn Marecek, MaryAnne Anthony-Smith, Andrea Honeycutt Mathis, 2020-05-06

algebra two online textbook: *High School Algebra II Unlocked* The Princeton Review, Theresa Duhon, 2016-06-28 UNLOCK THE SECRETS OF ALGEBRA II with THE PRINCETON REVIEW. Algebra can be a daunting subject. That's why our new High School Unlocked series focuses on giving you a wide range of key techniques to help you tackle subjects like Algebra II. If one method doesn't click for you, you can use an alternative approach to understand the concept or problem, instead of painfully trying the same thing over and over without success. Trust us—unlocking the secrets of algebra doesn't have to hurt! With this book, you'll discover the link between abstract

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algebra two online textbook: Introduction to Applied Linear Algebra Stephen Boyd, Lieven Vandenbergh, 2018-06-07 A groundbreaking introduction to vectors, matrices, and least squares for engineering applications, offering a wealth of practical examples.

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algebra two online textbook: Introduction to Algebra Richard Rusczyk, 2009

algebra two online textbook: Big Ideas Math , 2013-01-16 Consistent with the philosophy of the Common Core State Standards and Standards for Mathematical Practice, the Big Ideas Math Student Edition provides students with diverse opportunities to develop problem-solving and communication skills through deductive reasoning and exploration. Students gain a deeper understanding of math concepts by narrowing their focus to fewer topics at each grade level. Students master content through inductive reasoning opportunities, engaging activities that provide deeper understanding, concise, stepped-out examples, rich, thought-provoking exercises, and a continual building on what has previously been taught.

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- Content focused on helping you excel in the classroom and on standardized tests
- Concise, clear explanations to easily grasp key concepts
- Thorough examples that illustrate how to solve typical algebra II questions
- More than 500 math problems that provide extensive opportunities to practice your new skills
- Helpful appendixes covering matrices and probabilities

Topics covered:

- Linear Equations and Inequalities
- Functions
- Quadratic Relationships
- Complex Numbers
- Polynomial Functions
- Rational and Irrational Functions
- Exponential and Logarithmic Functions
- Sequences and Series
- Trigonometry
- Descriptive Statistics
- Inferential Statistics

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Accessible but rigorous, this outstanding text encompasses all of the topics covered by a typical course in elementary abstract algebra. Its easy-to-read treatment offers an intuitive approach, featuring informal discussions followed by thematically arranged exercises. This second edition features additional exercises to improve student familiarity with applications. 1990 edition.

algebra two online textbook: Algebra II N. Bourbaki, 2013-12-01 This is a softcover reprint of chapters four through seven of the 1990 English translation of the revised and expanded version of Bourbaki's *Algebre*. Much material was added or revised for this edition, which thoroughly establishes the theories of commutative fields and modules over a principal ideal domain.

algebra two online textbook: Core Connections, 2016

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algebra two online textbook: Beast Academy Guide 2A Jason Batterson, 2017-09 *Beast Academy Guide 2A* and its companion *Practice 2A* (sold separately) are the first part in the planned four-part series for 2nd grade mathematics. Book 2A includes chapters on place value, comparing, and addition.

algebra two online textbook: Abstract Algebra Thomas Judson, 2023-08-11 *Abstract Algebra: Theory and Applications* is an open-source textbook that is designed to teach the principles and theory of abstract algebra to college juniors and seniors in a rigorous manner. Its strengths include a wide range of exercises, both computational and theoretical, plus many non-trivial applications. The first half of the book presents group theory, through the Sylow theorems, with enough material for a semester-long course. The second half is suitable for a second semester and presents rings, integral domains, Boolean algebras, vector spaces, and fields, concluding with Galois Theory.

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algebra two online textbook: Algebra 2 K. Elayn Martin-Gay, 2015-05

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course at the University of Northern Colorado. This course serves both as an introduction to topics in discrete math and as the introduction to proof course for math majors. The course is usually taught with a large amount of student inquiry, and this text is written to help facilitate this. Four main topics are covered: counting, sequences, logic, and graph theory. Along the way proofs are introduced, including proofs by contradiction, proofs by induction, and combinatorial proofs. The book contains over 360 exercises, including 230 with solutions and 130 more involved problems suitable for homework. There are also Investigate! activities throughout the text to support active, inquiry based learning. While there are many fine discrete math textbooks available, this text has the following advantages: It is written to be used in an inquiry rich course. It is written to be used in a course for future math teachers. It is open source, with low cost print editions and free electronic editions.

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