

# algebra books for beginners

## Algebra Books for Beginners: Your Guide to Mastering the Fundamentals

Are you intimidated by the word "algebra"? Do you feel like unlocking the mysteries of this crucial mathematical field is beyond your reach? Fear not! This comprehensive guide will equip you with everything you need to choose the perfect algebra book for beginners, paving the way for a confident and enjoyable learning experience. We'll explore various book options, discuss key features to look for, and ultimately empower you to conquer the world of variables, equations, and beyond. This post delves deep into the best algebra books for beginners, offering reviews, comparisons, and helpful tips to ensure you find the perfect learning companion.

### Understanding Your Algebra Needs: Choosing the Right Book

Before diving into specific book recommendations, let's clarify what kind of beginner you are. Are you a complete novice, needing a gentle introduction to basic concepts? Or do you have some prior math experience but need a refresher or a more focused approach to algebra?

**Complete Beginners:** If you're starting from scratch, you need a book that emphasizes foundational concepts like numbers, operations, and basic arithmetic. It should progress slowly, with plenty of practice problems and clear explanations. Look for books with colorful visuals and engaging examples to keep you motivated.

**Students with Some Math Background:** If you've already grasped some basic arithmetic, you might prefer a book that dives more quickly into algebraic concepts like variables, equations, and inequalities. These books often offer more challenging problems and a faster pace.

**Specific Learning Styles:** Consider your preferred learning style. Some learners thrive with visual aids and diagrams, while others benefit from detailed explanations and step-by-step instructions. Choose a book that caters to your learning preferences.

### Top Algebra Books for Beginners: Reviews and Comparisons

Here are some highly-rated algebra books perfect for beginners, categorized by learning style and experience level:

1. "Algebra for Dummies" by Mary Jane Sterling:

This classic is a great choice for complete beginners. It's known for its clear, concise explanations, humorous approach, and abundance of practice problems. Sterling breaks down complex concepts into manageable chunks, making algebra accessible and less intimidating.

1. "Prealgebra" by Charles McKeague:

This book provides a thorough foundation in pre-algebraic concepts, preparing you for a smoother transition into algebra. It's excellent for those who need a strong base before tackling more advanced topics. McKeague's approach is methodical and comprehensive, building a solid understanding step-by-step.

1. "Beginning Algebra" by Robert Blitzer:

Blitzer's book is a popular choice for those comfortable with basic arithmetic and looking to move swiftly into algebra. It presents concepts clearly and logically, with ample practice exercises and real-world applications. It's a great option for a structured and efficient learning experience.

1. "Elementary Algebra" by Alan S. Tussy and R. David Gustafson:

This book features a visual and engaging approach, making it ideal for visual learners. The authors utilize numerous diagrams, graphs, and real-world examples to illustrate algebraic concepts effectively. It balances theory with practice, making it a well-rounded resource.

1. "Algebra: A Complete Introduction" by Hugh Neill and Douglas Quadling:

This book takes a more traditional approach, suitable for learners who prefer a rigorous and systematic learning method. It offers a thorough exploration of algebraic concepts with a focus on problem-solving.

## **Example Book Outline: "Algebra for Dummies"**

Let's examine a sample book outline to illustrate what to expect from a successful beginner algebra book.

Book Title: Algebra for Dummies

Outline:

Part I: Getting Started with Algebra

Chapter 1: What is Algebra?

Chapter 2: Numbers and Operations

Chapter 3: Variables and Expressions

Chapter 4: Solving Basic Equations

Part II: Diving Deeper into Algebra  
Chapter 5: Inequalities  
Chapter 6: Graphing Equations  
Chapter 7: Systems of Equations  
Chapter 8: Exponents and Radicals

Part III: Advanced Algebra Concepts (Optional)  
Chapter 9: Polynomials  
Chapter 10: Factoring  
Chapter 11: Quadratic Equations

Conclusion: Mastering Algebra and Moving Forward

## **Detailed Explanation of Outline Points (Based on "Algebra for Dummies" structure)**

**Part I: Getting Started with Algebra:** This section lays the groundwork, ensuring the reader possesses a strong understanding of fundamental mathematical concepts before progressing.

**Chapter 1: What is Algebra?:** This introductory chapter demystifies algebra, explaining its purpose and relevance in a relatable way. It removes intimidation and presents algebra as a logical and accessible subject.

**Chapter 2: Numbers and Operations:** A review of basic arithmetic—addition, subtraction, multiplication, and division—ensuring a solid foundation for understanding algebraic operations.

**Chapter 3: Variables and Expressions:** This chapter introduces the concept of variables and how they represent unknown quantities. It explains how to write and simplify algebraic expressions.

**Chapter 4: Solving Basic Equations:** This chapter introduces the core concept of solving for an unknown variable in simple equations using various methods like addition, subtraction, multiplication, and division.

**Part II: Diving Deeper into Algebra:** This part builds upon the foundational knowledge from Part I, introducing more complex algebraic concepts.

**Chapter 5: Inequalities:** Explaining inequalities, their representation, and how to solve them.

**Chapter 6: Graphing Equations:** Introduction to Cartesian coordinates and how to represent algebraic equations visually using graphs.

**Chapter 7: Systems of Equations:** This chapter covers techniques for solving systems of equations with multiple variables, such as substitution and elimination methods.

**Chapter 8: Exponents and Radicals:** Explanation of exponents, their rules, and how to manipulate them. Introduction to radicals (roots) and their relationship to exponents.

**Part III: Advanced Algebra Concepts (Optional):** This section provides a deeper dive into more challenging topics, useful for those seeking a comprehensive understanding.

Chapter 9: Polynomials: This chapter introduces polynomials, explaining how to add, subtract, multiply, and divide them.

Chapter 10: Factoring: This chapter covers various techniques for factoring polynomials, preparing the reader for solving more complex equations.

Chapter 11: Quadratic Equations: This chapter introduces quadratic equations and techniques for solving them, such as factoring, completing the square, and the quadratic formula.

Conclusion: Mastering Algebra and Moving Forward: This section reinforces the learned concepts, offering guidance on further study and applications of algebra in various fields.

## FAQs

1. What is the best algebra book for absolute beginners with no prior math experience? "Algebra for Dummies" is a great option due to its clear, accessible explanations and abundance of practice problems.
1. Are there algebra books with online resources? Many modern algebra books include online access to additional exercises, solutions, and interactive learning tools. Check the book description to see what's offered.
1. How much time should I dedicate to learning algebra daily? The amount of time needed depends on your learning pace and background. Aim for consistent study sessions, even if they are short, rather than infrequent, long sessions.
1. Is it okay to use multiple algebra books? Yes, using multiple resources can provide different perspectives and reinforce concepts. Supplement your primary textbook with online tutorials or workbooks.
1. Where can I find practice problems for algebra? Many websites and online platforms offer free algebra practice problems and quizzes. Your textbook likely includes practice problems as well.
1. What if I get stuck on a problem? Don't get discouraged! Seek help from online resources, tutors, or classmates. Break down the problem into smaller parts, and focus on understanding the underlying concepts.

1. Is algebra important for future studies and careers? Yes, algebra is a fundamental building block for many other mathematical fields and is crucial for various science and engineering disciplines.
1. Can I learn algebra independently, or do I need a teacher? Many successfully learn algebra independently with the right resources and dedication. However, having a teacher or tutor can provide valuable support and guidance.
1. What are the best ways to stay motivated while learning algebra? Set realistic goals, celebrate small victories, find a study buddy, and reward yourself for completing tasks. Remember that learning takes time and effort, but the rewards are significant.

## Related Articles:

1. Pre-Algebra for Dummies: A stepping stone to algebra, covering essential prerequisites.
2. Intermediate Algebra for Beginners: Builds upon the foundation of basic algebra.
3. Algebra Word Problems Made Easy: Focuses on translating real-world scenarios into algebraic equations.
4. Algebra and Geometry Combined: Explains the connections and overlaps between these mathematical fields.
5. Algebra for College Students: A more advanced approach, suitable for university-level courses.
6. Algebraic Reasoning and Problem Solving: Emphasizes the critical thinking skills needed in algebra.
7. Mastering Linear Equations: A deep dive into linear equations and their applications.
8. Introduction to Quadratic Equations: A beginner-friendly guide to solving quadratic equations.
9. Applications of Algebra in Real Life: Illustrates how algebra is used in everyday situations and professions.

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.

**algebra books for beginners: A Course in Algebra** Ernest Borisovich Vinberg, 2003-04-10  
Presents modern algebra. This book includes such topics as affine and projective spaces, tensor algebra, Galois theory, Lie groups, and associative algebras and their representations. It is suitable for independent study for advanced undergraduates and graduate students.

**algebra books for beginners: Algebra I For Dummies** Mary Jane Sterling, 2016-05-26  
Algebra I For Dummies, 2nd Edition (9781119293576) was previously published as Algebra I For Dummies, 2nd Edition (9780470559642). 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. Factor fearlessly, conquer the quadratic formula, and solve linear equations There's no doubt that algebra can be easy to some while extremely challenging to others. If you're vexed by variables, Algebra I For Dummies, 2nd Edition provides the plain-English, easy-to-follow guidance you need to get the right solution every time! Now with 25% new and revised content, this easy-to-understand reference not only explains algebra in terms you can understand, but it also gives you the necessary tools to solve complex problems with confidence. You'll understand how to factor fearlessly, conquer the quadratic formula, and solve linear equations. Includes revised and updated examples and practice problems Provides explanations and practical examples that mirror today's teaching methods Other titles by Sterling: Algebra II For Dummies and Algebra Workbook For Dummies Whether you're currently enrolled in a high school or college algebra course or are just looking to brush-up your skills, Algebra I For Dummies, 2nd Edition gives you friendly and comprehensible guidance on this often difficult-to-grasp subject.

**algebra books for beginners: A Book of Abstract Algebra** Charles C Pinter, 2010-01-14  
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 books for beginners: Linear Algebra For Dummies** Mary Jane Sterling, 2009-06-05  
Learn to: Solve linear algebra equations in several ways Put data in order with matrices Determine values with determinants Work with eigenvalues and eigenvectors Your hands-on guide to real-world applications of linear algebra Does linear algebra leave you feeling lost? No worries this easy-to-follow guide explains the how and the why of solving linear algebra problems in plain English. From matrices to vector spaces to linear transformations, you'll understand the key concepts and see how they relate to everything from genetics to nutrition to spotted owl extinction. Line up the basics discover several different approaches to organizing numbers and equations, and solve systems of equations algebraically or with matrices Relate vectors and linear transformations link vectors and matrices with linear combinations and seek solutions of homogeneous systems Evaluate determinants see how to perform the determinant function on different sizes of matrices and take advantage of Cramer's rule Hone your skills with vector spaces determine the properties of vector spaces and their subspaces and see linear transformation in action Tackle eigenvalues and eigenvectors define and solve for eigenvalues and eigenvectors and understand how they interact with specific matrices Open the book and find: Theoretical and practical ways of solving linear algebra problems Definitions of terms throughout and in the glossary New ways of looking at operations How linear algebra ties together vectors, matrices, determinants, and linear

transformations Ten common mathematical representations of Greek letters Real-world applications of matrices and determinants

**algebra books for beginners: Linear Algebra Done Right** Sheldon Axler, 1997-07-18 This text for a second course in linear algebra, aimed at math majors and graduates, adopts a novel approach by banishing determinants to the end of the book and focusing on understanding the structure of linear operators on vector spaces. The author has taken unusual care to motivate concepts and to simplify proofs. For example, the book presents - without having defined determinants - a clean proof that every linear operator on a finite-dimensional complex vector space has an eigenvalue. The book starts by discussing vector spaces, linear independence, span, basics, and dimension. Students are introduced to inner-product spaces in the first half of the book and shortly thereafter to the finite-dimensional spectral theorem. A variety of interesting exercises in each chapter helps students understand and manipulate the objects of linear algebra. This second edition features new chapters on diagonal matrices, on linear functionals and adjoints, and on the spectral theorem; some sections, such as those on self-adjoint and normal operators, have been entirely rewritten; and hundreds of minor improvements have been made throughout the text.

**algebra books for beginners: Introduction To Commutative Algebra** Michael F. Atiyah, I.G. MacDonald, 2018-03-09 First Published in 2018. This book grew out of a course of lectures given to third year undergraduates at Oxford University and it has the modest aim of producing a rapid introduction to the subject. It is designed to be read by students who have had a first elementary course in general algebra. On the other hand, it is not intended as a substitute for the more voluminous tracts such as Zariski-Samuel or Bourbaki. We have concentrated on certain central topics, and large areas, such as field theory, are not touched. In content we cover rather more ground than Northcott and our treatment is substantially different in that, following the modern trend, we put more emphasis on modules and localization.

**algebra books for beginners: Abstract Algebra** I. N. Herstein, 1990

**algebra books for beginners: The Linear Algebra a Beginning Graduate Student Ought to Know** Jonathan S. Golan, 2007-04-05 This book rigorously deals with the abstract theory and, at the same time, devotes considerable space to the numerical and computational aspects of linear algebra. It features a large number of thumbnail portraits of researchers who have contributed to the development of linear algebra as we know it today and also includes over 1,000 exercises, many of which are very challenging. The book can be used as a self-study guide; a textbook for a course in advanced linear algebra, either at the upper-class undergraduate level or at the first-year graduate level; or as a reference book.

**algebra books for beginners: 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.

**algebra books for beginners: Basic Math and Pre-Algebra Workbook For Dummies** Mark Zegarelli, 2009-01-29 When you have the right math teacher, learning math can be painless and even fun! Let Basic Math and Pre-Algebra Workbook For Dummies teach you how to overcome your fear of math and approach the subject correctly and directly. A lot of the topics that probably inspired fear before will seem simple when you realize that you can solve math problems, from basic addition to algebraic equations. Lots of students feel they got lost somewhere between learning to count to ten and their first day in an algebra class, but help is here! Begin with basic topics like interpreting patterns, navigating the number line, rounding numbers, and estimating answers. You will learn and review the basics of addition, subtraction, multiplication, and division. Do remainders make you nervous? You'll find an easy and painless way to understand long division. Discover how to apply the commutative, associative, and distributive properties, and finally understand basic geometry and algebra. Find out how to: Properly use negative numbers, units, inequalities, exponents, square roots, and absolute value Round numbers and estimate answers Solve problems with fractions, decimals, and percentages Navigate basic geometry Complete algebraic expressions and equations Understand statistics and sets Uncover the mystery of FOILing Answer sample

questions and check your answers Complete with lists of ten alternative numeral and number systems, ten curious types of numbers, and ten geometric solids to cut and fold, Basic Math and Pre-Algebra Workbook For Dummies will demystify math and help you start solving problems in no time!

**algebra books for beginners: Basic Mathematics** Serge Lang, 1988-01

**algebra books for beginners: Algebra for Beginners** Henry Sinclair Hall, Samuel Ratcliffe Knight, 1895

**algebra books for beginners: Basic Algebra** Anthony W. Knapp, 2007-07-28 Basic Algebra and Advanced Algebra systematically develop concepts and tools in algebra that are vital to every mathematician, whether pure or applied, aspiring or established. Together, the two books give the reader a global view of algebra and its role in mathematics as a whole. The presentation includes blocks of problems that introduce additional topics and applications to science and engineering to guide further study. Many examples and hundreds of problems are included, along with a separate 90-page section giving hints or complete solutions for most of the problems.

**algebra books for beginners: Everything You Need to Ace Pre-Algebra and Algebra I in One Big Fat Notebook** Workman Publishing, Jason Wang, 2021-10-05 Millions and millions of BIG FAT NOTEBOOKS sold! Pre-Algebra & Algebra 1? No Problem! The BIG FAT NOTEBOOK covers everything you need to know during a year of Pre-Algebra and Algebra 1 class, breaking down one big fat subject into accessible units. Including: The number system, ratios, and proportions, scientific notation, introduction and equations, functions, graphing a line, square roots and cube roots, polynomial operations, quadratic functions, and more. Study better with: -Mnemonic devices -Definitions -Diagrams -Educational doodles -and quizzes to recap it all and get better grades!

**algebra books for beginners: A First Course in Calculus** Serge Lang, 2012-09-17 This fifth edition of Lang's book covers all the topics traditionally taught in the first-year calculus sequence. Divided into five parts, each section of A FIRST COURSE IN CALCULUS contains examples and applications relating to the topic covered. In addition, the rear of the book contains detailed solutions to a large number of the exercises, allowing them to be used as worked-out examples -- one of the main improvements over previous editions.

**algebra books for beginners: Basic Math & Pre-Algebra For Dummies** Mark Zegarelli, 2016-06-13 Basic Math & Pre-Algebra For Dummies, 2nd Edition (9781119293637) was previously published as Basic Math & Pre-Algebra For Dummies, 2nd Edition (9781118791981). 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. Tips for simplifying tricky basic math and pre-algebra operations Whether you're a student preparing to take algebra or a parent who wants or needs to brush up on basic math, this fun, friendly guide has the tools you need to get in gear. From positive, negative, and whole numbers to fractions, decimals, and percents, you'll build necessary math skills to tackle more advanced topics, such as imaginary numbers, variables, and algebraic equations. Explanations and practical examples that mirror today's teaching methods Relevant cultural vernacular and references Standard For Dummies materials that match the current standard and design Basic Math & Pre-Algebra For Dummies takes the intimidation out of tricky operations and helps you get ready for algebra!

**algebra books for beginners: Abstract Algebra** John A. Beachy, William D. Blair, 1996

**algebra books for beginners: Linear Algebra for Beginners: Open Doors to Great Careers** Richard Han, 2018-10-16 From machine learning and data science to engineering and finance, linear algebra is an important prerequisite for the careers of today and of the future. There aren't many resources out there that give simple detailed examples and that walk you through the topics step by step. Many resources out there are either too dry or too difficult. This book aims to teach linear algebra step-by-step with examples that are simple but concrete.

**algebra books for beginners: Algebra I All-in-One For Dummies** Mary Jane Sterling, 2021-11-18 Solve for 'X' with this practical and easy guide to everything algebra A solid understanding of algebra is the key to unlocking other areas of math and science that rely on the

concepts and skills that happen in a foundational Algebra class. Algebra I All-In-One For Dummies is the key! With it, you'll get everything you need to solve the mystery of Algebra I. This book proves that algebra is for everyone with straightforward, unit-based instruction, hundreds of examples and practice problems, and two quizzes for every chapter – one in the book and another (totally different!) online. From graph and word problems to the FOIL method and common algebra terminology, Algebra I All-In-One For Dummies walks you step-by-step through ALL the concepts you need to know to slay your Algebra I class. In this handy guide, you'll also: Receive instruction and tips on how to handle basic and intermediate algebraic tasks such as factoring and equation simplification Banish math anxiety forever by developing an intuitive understanding of how algebra works Get a handle on graphing problems and functions, as well as inequalities and word problems Algebra I All-In-One For Dummies is a must-read for Algebra students looking for an everything-in-one-book supplement to their coursework, as well as anyone hoping to brush up on their math before tackling a related subject, such as physics, chemistry, or a more advanced math topic.

**algebra books for beginners: 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.

**algebra books for beginners: College Algebra** Jay Abramson, 2018-01-07 College Algebra provides a comprehensive exploration of algebraic principles and meets scope and sequence requirements for a typical introductory algebra course. The modular approach and richness of content ensure that the book meets the needs of a variety of courses. College Algebra offers a wealth of examples with detailed, conceptual explanations, building a strong foundation in the material before asking students to apply what they've learned. Coverage and Scope In determining the concepts, skills, and topics to cover, we engaged dozens of highly experienced instructors with a range of student audiences. The resulting scope and sequence proceeds logically while allowing for a significant amount of flexibility in instruction. Chapters 1 and 2 provide both a review and foundation for study of Functions that begins in Chapter 3. The authors recognize that while some institutions may find this material a prerequisite, other institutions have told us that they have a cohort that need the prerequisite skills built into the course. Chapter 1: Prerequisites Chapter 2: Equations and Inequalities Chapters 3-6: The Algebraic Functions Chapter 3: Functions Chapter 4: Linear Functions Chapter 5: Polynomial and Rational Functions Chapter 6: Exponential and Logarithm Functions Chapters 7-9: Further Study in College Algebra Chapter 7: Systems of Equations and Inequalities Chapter 8: Analytic Geometry Chapter 9: Sequences, Probability and Counting Theory

**algebra books for beginners: Algebra I Workbook For Dummies** Mary Jane Sterling, 2011-07-08 From signed numbers to story problems — calculate equations with ease Practice is the key to improving your algebra skills, and that's what this workbook is all about. This hands-on guide focuses on helping you solve the many types of algebra problems you'll encounter in a focused, step-by-step manner. With just enough refresher explanations before each set of problems, this workbook shows you how to work with fractions, exponents, factoring, linear and quadratic equations, inequalities, graphs, and more! 100s of problems! Hundreds of practice exercises and helpful explanations Explanations mirror teaching methods and classroom protocols Focused, modular content presented in step-by-step lessons Practice on hundreds of Algebra I problems Review key concepts and formulas Get complete answer explanations for all problems

**algebra books for beginners: Abstract Algebra for Beginners** Steve Warner, 2019-07-28 This book [provides] a basic but rigorous introduction to abstract algebra. --

**algebra books for beginners: Beginning and Intermediate Algebra** Tyler Wallace, 2018-02-13 Get Better Results with high quality content, exercise sets, and step-by-step pedagogy! Tyler Wallace continues to offer an enlightened approach grounded in the fundamentals of classroom experience in Beginning and Intermediate Algebra. The text reflects the compassion and insight of its experienced author with features developed to address the specific needs of developmental level students. Throughout the text, the author communicates to students the very points their instructors are likely to make during lecture, and this helps to reinforce the concepts and provide instruction that leads students to mastery and success. The exercises, along with the number of practice problems and group activities available, permit instructors to choose from a wealth of problems, allowing ample opportunity for students to practice what they learn in lecture to hone their skills. In this way, the book perfectly complements any learning platform, whether traditional lecture or distance-learning; its instruction is so reflective of what comes from lecture, that students will feel as comfortable outside of class as they do inside class with their instructor.

**algebra books for beginners: Undergraduate Algebra** Serge Lang, 2013-06-29 The companion title, Linear Algebra, has sold over 8,000 copies The writing style is very accessible The material can be covered easily in a one-year or one-term course Includes Noah Snyder's proof of the Mason-Stothers polynomial abc theorem New material included on product structure for matrices including descriptions of the conjugation representation of the diagonal group

**algebra books for beginners: Algebra Essentials Practice Workbook with Answers: Linear and Quadratic Equations, Cross Multiplying, and Systems of Equations** Chris McMullen, 2010-07-12  
AUTHOR: Chris McMullen earned his Ph.D. in physics from Oklahoma State University and currently teaches physics at Northwestern State University of Louisiana. He developed the Improve Your Math Fluency series of workbooks to help students become more fluent in basic math skills.  
CONTENTS: This Algebra Essentials Practice Workbook with Answers provides ample practice for developing fluency in very fundamental algebra skills - in particular, how to solve standard equations for one or more unknowns. These algebra 1 practice exercises are relevant for students of all levels - from grade 7 thru college algebra. This workbook is conveniently divided up into seven chapters so that students can focus on one algebraic method at a time. Skills include solving linear equations with a single unknown (with a separate chapter dedicated toward fractional coefficients), factoring quadratic equations, using the quadratic formula, cross multiplying, and solving systems of linear equations. Not intended to serve as a comprehensive review of algebra, this workbook is instead geared toward the most essential algebra skills. An introduction describes how parents and teachers can help students make the most of this workbook. Students are encouraged to time and score each page. In this way, they can try to have fun improving on their records, which can help lend them confidence in their math skills.  
PRACTICE: With no pictures, this workbook is geared strictly toward learning the material and developing fluency through practice.  
EXAMPLES: Each section begins with a few pages of instructions for how to solve the equations followed by a few examples. These examples should serve as a useful guide until students are able to solve the problems independently.  
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**algebra books for beginners: Commutative Algebra** David Eisenbud, 2013-12-01 This is a comprehensive review of commutative algebra, from localization and primary decomposition through dimension theory, homological methods, free resolutions and duality, emphasizing the origins of the ideas and their connections with other parts of mathematics. The book gives a concise treatment of Grobner basis theory and the constructive methods in commutative algebra and algebraic geometry that flow from it. Many exercises included.

**algebra books for beginners: Deep Learning** Ian Goodfellow, Yoshua Bengio, Aaron Courville, 2016-11-10 An introduction to a broad range of topics in deep learning, covering mathematical and conceptual background, deep learning techniques used in industry, and research perspectives. "Written by three experts in the field, Deep Learning is the only comprehensive book on the subject." —Elon Musk, cochair of OpenAI; cofounder and CEO of Tesla and SpaceX Deep learning is a form of machine learning that enables computers to learn from experience and understand the world in terms of a hierarchy of concepts. Because the computer gathers knowledge from experience, there is no need for a human computer operator to formally specify all the knowledge that the computer needs. The hierarchy of concepts allows the computer to learn complicated concepts by building them out of simpler ones; a graph of these hierarchies would be many layers deep. This book introduces a broad range of topics in deep learning. The text offers mathematical and conceptual background, covering relevant concepts in linear algebra, probability theory and information theory, numerical computation, and machine learning. It describes deep learning techniques used by practitioners in industry, including deep feedforward networks, regularization, optimization algorithms, convolutional networks, sequence modeling, and practical methodology; and it surveys such applications as natural language processing, speech recognition, computer vision, online recommendation systems, bioinformatics, and videogames. Finally, the book offers research perspectives, covering such theoretical topics as linear factor models, autoencoders, representation learning, structured probabilistic models, Monte Carlo methods, the partition function, approximate inference, and deep generative models. Deep Learning can be used by undergraduate or graduate students planning careers in either industry or research, and by software engineers who want to begin using deep learning in their products or platforms. A website offers supplementary material for both readers and instructors.

**algebra books for beginners: An Introduction to Homological Algebra** Charles A. Weibel, 1995-10-27 The landscape of homological algebra has evolved over the last half-century into a fundamental tool for the working mathematician. This book provides a unified account of homological algebra as it exists today. The historical connection with topology, regular local rings, and semi-simple Lie algebras are also described. This book is suitable for second or third year graduate students. The first half of the book takes as its subject the canonical topics in homological algebra: derived functors, Tor and Ext, projective dimensions and spectral sequences. Homology of group and Lie algebras illustrate these topics. Intermingled are less canonical topics, such as the derived inverse limit functor  $\varprojlim$ , local cohomology, Galois cohomology, and affine Lie algebras. The

last part of the book covers less traditional topics that are a vital part of the modern homological toolkit: simplicial methods, Hochschild and cyclic homology, derived categories and total derived functors. By making these tools more accessible, the book helps to break down the technological barrier between experts and casual users of homological algebra.

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