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*Winner of the Pulitzer Prize in Fiction
Shortlisted for the Man Booker Prize New York Times Bestseller A New York Times Notable Book and a Washington Post, Time, Oprah Magazine, Newsweek, Chicago Tribune, and Kirkus Reviews Best Book of 2018 "The best novel ever written about trees, and*

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really just one of the best novels, period." –Ann Patchett The Overstory, winner of the 2019 Pulitzer Prize in Fiction, is a sweeping, impassioned work of activism and resistance that is also a stunning evocation of—and paeon to—the natural world. From the roots to the crown and back to the seeds, Richard Powers's twelfth novel unfolds in concentric rings of interlocking fables that range from antebellum New York to the late twentieth-century Timber Wars of the Pacific Northwest and beyond. There is a world

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alongside ours—vast, slow, interconnected, resourceful, magnificently inventive, and almost invisible to us. This is the story of a handful of people who learn how to see that world and who are drawn up into its unfolding catastrophe.

CK-12 Foundation's Single Variable Calculus FlexBook introduces high school students to the topics covered in the Calculus AB course. Topics include: Limits, Derivatives, and Integration.

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digital and analogue electronics with readability and ease of use." - back cover.

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brings out the central importance of e to mathematics and illuminates a golden era in the age of science.

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2nd Edition - Updated for the 2017 Exams Crash Course is perfect for the time-crunched student, the last-minute studier, or anyone who wants a refresher on the subject. Are you crunched for time? Have you started studying for your Advanced Placement® Calculus AB & BC exams yet? How will you memorize everything you need to know before the tests? Do you wish there was a fast and easy way to study for the exams AND boost your score? If

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this sounds like you, don't panic.

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cover in a typical one- or two-semester course; but instructors should find, almost without fail, that the topics they wish to include in their syllabus are covered in the text. Many chapters of OpenStax College Precalculus are suitable for other freshman and sophomore math courses such as College Algebra and Trigonometry; however, instructors of those courses might need to supplement or adjust the material. OpenStax will also be releasing College

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Algebra and Algebra and trigonometry titles tailored to the particular scope, sequence, and pedagogy of those courses."--Preface.

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Functions - part II - Exponential Growth and Decay, Logarithmic, Word Problems (half-life), Laws of Exponents, Test #6 - The Conic Sections

| ABOUT AUTHOR: I earned a Bachelor of Science Degree at the University of Hawaii at Manoa. I also received a Master of Education degree at Chaminade University of Honolulu. I am also a public high school teacher with over 22 years of teaching experience in the field of Mathematics. In my 22 plus

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years, I have taught courses in Algebra 1, Geometry, Algebra 2, Trigonometry, Precalculus, AP Calculus AB, AP Calculus BC. Up until recently, I owned a private tutoring company where I tutored students from grade 7 through college level students taking Mathematics up through Calculus IV. Whether you're a student or an adult looking to refresh your knowledge, Barron's Painless Calculus provides review and practice in an easy, step-by-

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step format. An essential resource for: Virtual Learning Homeschool Learning pods Supplementing classes/in-person learning Inside you'll find: Examples of all topics, including limits and continuity, derivatives, curve sketching, definite integrals, and much more Diagrams, charts, and instructive math illustrations Painless tips and common pitfalls Math talk boxes that translate complex "math speak" into easy-to-understand language Brain

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them implement Clothesline Math in K-12 classrooms. Detailed, useful tips for facilitating the ensuing mathematical discourse are also included. At the elementary level, the hands-on lessons cover important math topics including whole numbers, place value, fractions, order of operations, algebraic reasoning, variables, and more. Implement Clothesline Math at the secondary level and provide students with hands-on learning and activities that teach advanced math topics including geometry, algebra, statistics,

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inversion formula for $SL(2, \mathbb{Z}[i]) \backslash SL(2, \mathbb{C})$. Unlike other treatments of the theory, the approach taken here is to begin with the heat kernel on $SL(2, \mathbb{C})$ associated to the invariant Laplacian, which is derived using spherical inversion. The heat kernel on the quotient space $SL(2, \mathbb{Z}[i]) \backslash SL(2, \mathbb{C})$ is arrived at through periodization, and further expanded in an eigenfunction expansion. A theta inversion formula is obtained by studying the trace of the heat kernel. Following the author's previous work, the inversion formula then leads to zeta functions through the Gauss transform./

By presenting teacher profiles and sample lessons from across the country, this book shows that the NCTM standards reflect successful practices of teachers at the "grass roots". This text provides a very simple, initial introduction to the

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complete scientific computing pipeline: models, discretization, algorithms, programming, verification, and visualization. The pedagogical strategy is to use one case study – an ordinary differential equation describing exponential decay processes – to illustrate fundamental concepts in mathematics and computer science. The book is easy to read and only requires a command of one-variable calculus and some very basic knowledge about computer programming. Contrary to similar texts on numerical methods and programming, this text has a much stronger focus on implementation and teaches testing and software engineering in particular.

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the new National Curriculum and the new GCSE specifications. The Teacher File contains detailed support and guidance on advanced planning, points of emphasis, key words, notes for non-specialist, useful supplementary ideas and homework sheets.

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Students do not experience math in a vacuum.

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The curriculum, the students' social and emotional well-being, and the teacher's expertise as a facilitator must all be attended to, and each interacts with the others. -Geoff Krall Math instruction in high school is often something of a grab bag, with schools jumping from curriculum to curriculum, lacking a guiding vision or continuity between years. No wonder so many students conclude, "I'm not a math person." Geoff Krall thinks that's a problem. And he's devoted his career to fixing it. Necessary Conditions posits for the first time a coherent approach to secondary math pedagogy. Krall identifies three essential

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elements that will open the door to math for all your students: academic safety, quality tasks, and effective facilitation. Krall takes readers into real middle- and high-school classrooms to see how teachers cultivate these three "necessary conditions." With extensive examples, practical techniques and resources, and insightful analysis, this guide equips teachers to do the following: Design classroom experiences that increase engagement and build all students' identities as mathematicians. Create dynamic, high-quality lessons that include meaningful, efficient assessment. Facilitate routines and discussions

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that increase all students' access to conceptual mathematics. The biggest drivers of students' math experiences are their teachers. With Krall's guidance, you can help every student come to recognize that they are indeed a "math person."

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A Reference for Algebra 1 (Common Core)

How Life Reflects Numbers, and Numbers Reflect Life

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From triangles, rotations and power

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laws, to fractals, cones and curves, bestselling author Alex Bellos takes you on a journey of mathematical discovery with his signature wit, engaging stories and limitless enthusiasm. As he narrates a series of eye-opening encounters with lively personalities all over the world, Alex demonstrates how numbers have come to be our friends, are fascinating and extremely accessible, and how they have changed our world. He turns even the

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dreaded calculus into an easy-to-grasp mathematical exposition, and sifts through over 30,000 survey submissions to reveal the world's favourite number. In Germany, he meets the engineer who designed the first roller-coaster loop, whilst in India he joins the world's highly numerate community at the International Congress of Mathematicians. He explores the wonders behind the Game of Life program, and explains mathematical logic, growth and

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negative numbers. Stateside, he hangs out with a private detective in Oregon and meets the mathematician who looks for universes from his garage in Illinois. Read this captivating book, and you won't realise that you're learning about complex concepts. Alex will get you hooked on maths as he delves deep into humankind's turbulent relationship with numbers, and proves just how much fun we can have with them.

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mathematical principles to even the most challenging advanced problems. Each chapter features an introduction to a problem type, definitions, related theorems, and formulas. Topics range from vital pre-calculus review to traditional calculus first-course content. Sample problems with solutions and a 50-problem chapter are ideal for self-testing. Fully explained examples with step-by-step solutions. Let's face it- most students don't take

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calculus because they find it intellectually stimulating. It's not . . . at least for those who come up on the wrong side of the bell curve! There they are, minding their own business, working toward some non-science related degree, when . . . BLAM! They get next semester's course schedule in the mail, and first on the list is the mother of all loathed college courses . . . CALCULUS! Not to fear-The Complete Idiot's Guide to Calculus, Second

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Edition, like its predecessor, is a curriculum-based companion book created with this audience in mind. This new edition continues the tradition of taking the sting out of calculus by adding more explanatory graphs and illustrations and doubling the number of practice problems! By the time readers are finished, they will have a solid understanding (maybe even a newfound appreciation) for this useful form of math. And with any luck, they

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may even be able to make sense of their textbooks and teachers.

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and Tables Mathematics enables in effectively building mental discipline and encourages logical reasoning and mental rigor. Thus this book simplifies the understanding of the various mathematical concepts and formulae and proves to be a comprehensive Study Guide for the aspirants, with focus on Qualitative Preparation and Systematic understanding of the Syllabus and Examination Level. With provision for self-assessment in Mock Tests, this book stands beneficial in imprinting concepts in the mind. Mathematical Applications for the Management,

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CalculusCollege Algebra

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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,

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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 can be like a foreign language, but
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gives you the tools and practice you need to fully understand the language of algebra and the why behind problem solving. Using Strategy and Why explanations in worked examples and a six-step problem solving strategy, ELEMENTARY AND INTERMEDIATE ALGEBRA, 5E, will guide you through an integrated learning process that will expand your reasoning abilities as it teaches you how to read, write, and think mathematically. Feel confident about your skills through additional practice in the text and Enhanced WebAssign. With ELEMENTARY AND INTERMEDIATE ALGEBRA, 5E, algebra will make sense because it is not just about

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the x...it's also about the WHY. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

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The Heat Kernel and Theta Inversion on $SL_2(\mathbb{C})$

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