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The New Republic May 01 2021

Great Ideas of Modern Mathematics, Their Nature and Use Jun 21 2020 An explanation of the development and structure of the modern mathematics used in contemporary science

The Science of Soccer Jan 17 2020 For the first time ever, science gives us the answers to questions like "what's the chance of a team that wins the League or Premiership also winning the Cup? Can you predict how many goals will be scored? What's the best height for footballers? Is the winning team the best team?" The Science of Soccer is a fascinating book, dealing with a wide ran

Pythagoras Nov 07 2021 One of the most important mathematical theorems is named after Pythagoras of Samos, but this semi-mythical Greek sage has more to offer than formulas. He is said to have discovered the numerical nature of the basic consonances and transposed the musical proportions to the cosmos, postulating a "harmony of the spheres." He may have coined the words "cosmos" and "philosophy." He is also believed to have taught the doctrine of transmigration of souls and therefore to have advised a vegetarian diet. Ancient legends have Pythagoras conversing with dogs, bears, and bulls. A distinctly Pythagorean way of life, including detailed ritual regulations, was observed by his disciples, who were organized as a secret society. Later, Pythagorean and Platonic teachings became fused. In this Platonized form, Pythagoreanism has remained influential through medieval Christianity and the Renaissance down to the present. Christoph Riedweg's book is an engaging introduction to the fundamental contributions of Pythagoras to the establishment of European culture. To penetrate the intricate maze of lore and ascertain what history can tell us about the philosopher, Riedweg not only examines the written record but also considers Pythagoras within the cultural, intellectual, and spiritual context of his times. The result is a vivid overview of the life and teachings of a crucial Greek thinker and his most important followers.

Modeling Creativity Oct 26 2020 Modeling Creativity (doctoral thesis, 2013) explores how creativity can be represented using computational approaches. Our aim is to construct computer models that exhibit creativity in an artistic context, that is, that are capable of generating or evaluating an artwork (visual or linguistic), an interesting new idea, a subjective opinion. The research was conducted in 2008–2012 at the Computational Linguistics Research Group (CLiPS, University of Antwerp) under the supervision of Prof. Walter Daelemans. Prior research was also conducted at the Experimental Media Research Group (EMRG, St. Lucas University College of Art & Design Antwerp) under the supervision of Lucas Nijs. Modeling Creativity examines creativity in a number of different perspectives: from its origins in nature, which is essentially blind, to humans and machines, and from generating creative ideas to evaluating and learning their novelty and usefulness. We will use a hands-on approach with case studies and examples in the Python programming language.

The Open World MANIFESTO Feb 10 2022 V. Alexander STEFAN The Open World MANIFESTO Novus Ordo Scientifico-Technologicus. QUALB Coeptis New Order Scientific-Technological. QUALB Cooperates CONTENTS BOOK 1 SCIENCE AND TECHNOLOGY: A New Earth and a New Atlantis Universe: Our Very Own 393 BOOK 2 HUMAN BEINGS; OUR ID-NUMBERS; OUR CONSCIOUSNESS of TIME 558 BOOK 3 FREEDOM, DEMOCRACY, and PLURALISM: The Dawning of the Terrestrial Civilization 618 BOOK 4 THE AGE OF EDUCATION: CREATIVE EDUCATION versus DRILL EDUCATION 699 BOOK 5 HUMAN BEING and QUALB the GIVER, the SUPREME BEING: Science/Technology and Religion 754

The Pot Thief Mysteries Volume One Oct 06 2021 An Albuquerque pottery dealer looking for artifacts finds murder and intrigue in this "smartly funny" series (Anne Hillerman, author of Spider Woman's Daughter). A dealer in ancient Native American pottery, Hubert Schuze has spent years searching the public lands of New Mexico for artwork that would otherwise remain buried. According to the US government, he's a thief, but Hubie knows the real crime would be to allow age-old traditions to die. He honors prehistoric craftspeople by resurrecting their handiwork, and nothing—not even foul play—will stop him in these three installments of the Lefty Award-winning mystery series. The Pot Thief Who Studied Pythagoras: Hubie accepts a \$25,000 offer to lift a rare pot from a local museum but changes his mind when he discovers how tightly the exhibit is being guarded. When the pot goes missing anyway, Hubie's sent on the hunt for the real thief—and on the run from a killer. The Pot Thief Who Studied Ptolemy: Hubie goes on a mission to recover stolen relics from a high-rise apartment building. Unfortunately, his perfect plan falls apart when he's arrested for murder. That's what happens when you get caught with blood on your hands and a dead body in the room. Now, Hubie must stay one step ahead of the law as he pursues a beautiful mystery woman in this fast-paced thriller that "hook[s] the reader from the get-go" (Albuquerque Journal). The Pot Thief Who Studied Einstein: After Hubie appraises a collection of Anasazi pots for an eccentric, reclusive collector, his \$2,500 payment disappears. He suspects the man ripped him off, but soon stumbles into a bigger crime when the collector is murdered. Determined not to end up in handcuffs, Hubie sets out to solve the mystery—and finds himself pulled deeper and deeper into the dead man's shadowy, dangerous life.

Connecting Humans to Equations Mar 19 2020 Connecting Humans to Equations: A Reinterpretation of the Philosophy of Mathematics presents some of the most important positions in the philosophy of mathematics, while adding new dimensions to this philosophy. Mathematics is an integral part of human and social life, meaning that a philosophy of mathematics must

include several dimensions. This book describes these dimensions by the following four questions that structure the content of the book: Where is mathematics? How certain is mathematics? How social is mathematics? How good is mathematics? These four questions refer to the ontological, epistemological, social, and ethical dimension of a philosophy of mathematics. While the ontological and epistemological dimensions have been explored in all classic studies in the philosophy of mathematics, the exploration of the book is unique in its social and ethical dimensions. It argues that the foundation of mathematics is deeply connected to human and social actions and that mathematics includes not just descriptive but also performative features. This human-centered and accessible interpretation of mathematics is relevant for students in mathematics, mathematics education, and any technical discipline and for anybody working with mathematics.

Lore and Science in Ancient Pythagoreanism May 21 2020 For this first English edition of his distinguished study of Pythagoreanism, *Weisheit und Wissenschaft: Studien zu Pythagoras, Philolaos, und Platon*, Walter Burkert has carefully revised text and notes, taking account of additional literature on the subject which appeared between 1962 and 1969. By a thorough critical sifting of all the available evidence, the author lays a new foundation for the understanding of ancient Pythagoreanism and in particular of the relationship within it of "lore" and "science." He shows that in the twilight zone when the Greeks were discovering the rational interpretation of the world and quantitative natural science, Pythagoras represented not the origin of the new, but the survival or revival of ancient, pre-scientific lore or wisdom, based on superhuman authority and expressed in ritual obligation.

How Not to Be Wrong Aug 04 2021 "Witty, compelling, and just plain fun to read . . ." —Evelyn Lamb, *Scientific American*
The Freakonomics of math—a math-world superstar unveils the hidden beauty and logic of the world and puts its power in our hands The math we learn in school can seem like a dull set of rules, laid down by the ancients and not to be questioned. In *How Not to Be Wrong*, Jordan Ellenberg shows us how terribly limiting this view is: Math isn't confined to abstract incidents that never occur in real life, but rather touches everything we do—the whole world is shot through with it. Math allows us to see the hidden structures underneath the messy and chaotic surface of our world. It's a science of not being wrong, hammered out by centuries of hard work and argument. Armed with the tools of mathematics, we can see through to the true meaning of information we take for granted: How early should you get to the airport? What does "public opinion" really represent? Why do tall parents have shorter children? Who really won Florida in 2000? And how likely are you, really, to develop cancer? *How Not to Be Wrong* presents the surprising revelations behind all of these questions and many more, using the mathematician's method of analyzing life and exposing the hard-won insights of the academic community to the layman—minus the jargon. Ellenberg chases mathematical threads through a vast range of time and space, from the everyday to the cosmic, encountering, among other things, baseball, Reaganomics, daring lottery schemes, Voltaire, the replicability crisis in psychology, Italian Renaissance painting, artificial languages, the development of non-Euclidean geometry, the coming obesity apocalypse, Antonin Scalia's views on crime and punishment, the psychology of slime molds, what Facebook can and can't figure out about you, and the existence of God. Ellenberg pulls from history as well as from the latest theoretical developments to provide those not trained in math with the knowledge they need. Math, as Ellenberg says, is "an atomic-powered prosthesis that you attach to your common sense, vastly multiplying its reach and strength." With the tools of mathematics in hand, you can understand the world in a deeper, more meaningful way. *How Not to Be Wrong* will show you how.

The Magic of Math Nov 19 2022 The world's greatest mental mathematical magician takes us on a spellbinding journey through the wonders of numbers (and more) "Arthur Benjamin . . . joyfully shows you how to make nature's numbers dance." -- Bill Nye (the science guy) *The Magic of Math* is the math book you wish you had in school. Using a delightful assortment of examples—from ice-cream scoops and poker hands to measuring mountains and making magic squares—this book revels in key mathematical fields including arithmetic, algebra, geometry, and calculus, plus Fibonacci numbers, infinity, and, of course, mathematical magic tricks. Known throughout the world as the "mathemagician," Arthur Benjamin mixes mathematics and magic to make the subject fun, attractive, and easy to understand for math fan and math-phobic alike. "A positively joyful exploration of mathematics." -- Publishers Weekly, starred review "Each [trick] is more dazzling than the last." -- *Physics World*
Time Travel and Other Mathematical Bewilderments Dec 16 2019 Martin Gardner's *Mathematical Games* columns in *Scientific American* inspired and entertained several generations of mathematicians and scientists. Gardner in his crystal-clear prose illuminated corners of mathematics, especially recreational mathematics, that most people had no idea existed. His playful spirit and inquisitive nature invite the reader into an exploration of beautiful mathematical ideas along with him. These columns were both a revelation and a gift when he wrote them; no one--before Gardner--had written about mathematics like this. They continue to be a marvel. This is the original 1988 edition and contains columns published from 1974-1976.

The Mathematics Teacher Mar 11 2022

How to Complete and Survive a Doctoral Dissertation Jan 09 2022 *How to Complete and Survive a Doctoral Dissertation* by David Sternberg Mastering these skills spells the difference between "A.B.D." and "Ph.D." -refuting the magnum opus myth -coping with the dissertation as obsession (magnificent or otherwise) -the fine art of selecting a topic -writing the dissertation with publication in mind -when to stand your ground and when to prudently retreat if the committee's conception of your thesis differs substantially from your own -dealing with obstructive committee members, and keeping the fences mended -how to reconsider "negative" findings as useful data -reviewing your progress, and getting out of the "dissertation dumps" -defending your paper successfully--distinguishing between mere formalities and a serious substantive challenge -exploiting the career potential of your dissertation -and much, much more

A Practical Guide to Teaching Mathematics in the Secondary School Jul 15 2022 Offers straightforward advice, inspiration and support for mathematics teachers whether in training or newly qualified. Based on the best research and practice available, it offers a wide range of tried and tested approaches that succeed in secondary classrooms.

Engaging Minds Apr 19 2020 *Engaging Minds: Cultures of Education and Practices of Teaching* explores the diverse beliefs

and practices that define the current landscape of formal education. The 3rd edition of this introduction to interdisciplinary studies of teaching and learning to teach is restructured around four prominent historical moments in formal education: Standardized Education, Authentic Education, Democratic Citizenship Education, Systemic Sustainability Education. These moments serve as the foci of the four sections of the book, each with three chapters dealing respectively with history, epistemology, and pedagogy within the moment. This structure makes it possible to read the book in two ways – either "horizontally" through the four in-depth treatments of the moments or "vertically" through coherent threads of history, epistemology, and pedagogy. Pedagogical features include suggestions for delving deeper to get at subtleties that can't be simply stated or appreciated through reading alone, several strategies to highlight and distinguish important vocabulary in the text, and more than 150 key theorists and researchers included among the search terms and in the Influences section rather than a formal reference list.

Amusements in Mathematics Jul 23 2020 One of the largest puzzle collections — 430 brainteasers based on algebra, arithmetic, permutations, probability, plane figure dissection, properties of numbers, etc. Intriguing, witty, paradoxical productions of one of the world's foremost creators of puzzles. More than 450 illustration with Solution

Millionaire Teacher Dec 08 2021 Adopt the investment strategy that turned a school teacher into a millionaire Millionaire Teacher shows you how to achieve financial independence through smart investing — without being a financial wizard. Author Andrew Hallam was a high school English teacher. He became a debt-free millionaire by following a few simple rules. In this book, he teaches you the financial fundamentals you need to follow in his tracks. You can spend just an hour per year on your investments, never think about the stock market's direction — and still beat most professional investors. It's not about get-rich-quick schemes or trendy investment products peddled by an ever-widening, self-serving industry; it's about your money and your future. This new second edition features updated discussion on passive investing, studies on dollar cost averaging versus lump sum investing, and a detailed segment on RoboAdvisors for Americans, Canadians, Australians, Singaporeans and British investors. Financial literacy is rarely taught in schools. Were you shortchanged by your education system? This book is your solution, teaching you the ABCs of finance to help you build wealth. Gain the financial literacy to make smart investment decisions Learn why you should invest in index funds Find out how to find the right kind of financial advisor Avoid scams and flash-in-the-pan trends Millionaire Teacher shows how to build a strong financial future today.

Proofs and Fundamentals Jun 02 2021 The aim of this book is to help students write mathematics better. Throughout it are large exercise sets well-integrated with the text and varying appropriately from easy to hard. Basic issues are treated, and attention is given to small issues like not placing a mathematical symbol directly after a punctuation mark. And it provides many examples of what students should think and what they should write and how these two are often not the same.

The Language of the Universe Apr 12 2022 From atoms to beehives to the movement of the planets, everything around us is buzzing with maths. So how does this language of numbers, symbols and equations make every single thing in our universe tick like an unseen clock? Visualise cosmic distances, discover the geometry in nature and marvel at the wonders of technology. Learn about mathematics in an extraordinary new light. Stunning surrealist artwork by Ximo Abadía meets easy-to-read informative text by science writer Colin Stuart to create highly engaging content that will inspire future engineers, mathematicians and scientists.

The Nature and Growth of Modern Mathematics Sep 17 2022 Now available in a one-volume paperback, this book traces the development of the most important mathematical concepts, giving special attention to the lives and thoughts of such mathematical innovators as Pythagoras, Newton, Poincare, and Godel. Beginning with a Sumerian short story--ultimately linked to modern digital computers--the author clearly introduces concepts of binary operations; point-set topology; the nature of post-relativity geometries; optimization and decision processes; ergodic theorems; epsilon-delta arithmetization; integral equations; the beautiful "ideals" of Dedekind and Emmy Noether; and the importance of "purifying" mathematics. Organizing her material in a conceptual rather than a chronological manner, she integrates the traditional with the modern, enlivening her discussions with historical and biographical detail.

The Accidental Business Nomad Jun 14 2022 "This is the Indiana Jones of international business." Csaba Toth An unvarnished, story-driven, practical guide to working across cultures. The book features real stories of companies going global and highlights the realities of doing business overseas in a post-globalization world. Each story gives fascinating insights and lessons into the cultural realities and unexpected surprises of modern globalization. The *Accidental Business Nomad* is for anyone working in a more global environment and who is looking to gain critical insights and communications skills needed for a shrinking world. As Managing Director of TSL Marketing's Leadership Nomad group, Kyle Hegarty has deciphered the culture code of doing business in Asia and the fastest growing markets. Hegarty reports on his triumphs and failures, including tales where unexpected lessons abound. The result is a no-holds-barred, gritty, and unvarnished guide to doing business across cultures. Readers will learn: · Why up to 70 percent of international ventures fail due to cultural issues, and how to avoid becoming a casualty · How to navigate the invisible language of cultural misunderstandings · Cross-cultural communications skills everyone in business needs to know · The art and science of personality profiling and quick short-cuts to understanding people · What outsourced call centers can teach us about the future of global communication · How to find inspiration and innovation in the most unlikely of places

Destroy This Book in the Name of Maths: Pythagoras Edition Feb 22 2023 Perfect for inquisitive children who love to have fun, there are a dozen press-out projects to create in this book, demonstrating some of the best bits of maths. Projects include fiery flexagons, mathematical card tricks and mind-bending Möbius strips. There are also lots of fascinating facts, colouring and doodling activities that will keep children busy for hours (all in the name of maths, of course).

The Handy Math Answer Book Oct 14 2019 From modern-day challenges such as balancing a checkbook, following the stock market, buying a home, and figuring out credit card finance charges to appreciating historical developments by Pythagoras,

Archimedes, Newton, and other mathematicians, this engaging resource addresses more than 1,000 questions related to mathematics. Organized into chapters that cluster similar topics in an easily accessible format, this reference provides clear and concise explanations about the fundamentals of algebra, calculus, geometry, trigonometry, and other branches of mathematics. It contains the latest mathematical discoveries, including newly uncovered historical documents and updates on how science continues to use math to make cutting-edge innovations in DNA sequencing, superstring theory, robotics, and computers. With fun math facts and illuminating figures, *The Handy Math Answer Book* explores the uses of math in everyday life and helps the mathematically challenged better understand and enjoy the magic of numbers.

Fascinating Mathematical People Mar 31 2021 Top mathematicians talk about their work and lives *Fascinating Mathematical People* is a collection of informal interviews and memoirs of sixteen prominent members of the mathematical community of the twentieth century, many still active. The candid portraits collected here demonstrate that while these men and women vary widely in terms of their backgrounds, life stories, and worldviews, they all share a deep and abiding sense of wonder about mathematics. Featured here—in their own words—are major research mathematicians whose cutting-edge discoveries have advanced the frontiers of the field, such as Lars Ahlfors, Mary Cartwright, Dusa McDuff, and Atle Selberg. Others are leading mathematicians who have also been highly influential as teachers and mentors, like Tom Apostol and Jean Taylor. Fern Hunt describes what it was like to be among the first black women to earn a PhD in mathematics. Harold Bacon made trips to Alcatraz to help a prisoner learn calculus. Thomas Banchoff, who first became interested in the fourth dimension while reading a Captain Marvel comic, relates his fascinating friendship with Salvador Dalí and their shared passion for art, mathematics, and the profound connection between the two. Other mathematical people found here are Leon Bankoff, who was also a Beverly Hills dentist; Arthur Benjamin, a part-time professional magician; and Joseph Gallian, a legendary mentor of future mathematicians, but also a world-renowned expert on the Beatles. This beautifully illustrated collection includes many photographs never before published, concise introductions by the editors to each person, and a foreword by Philip J. Davis.

Mind Tools Jul 03 2021 Originally published: Boston: Houghton Mifflin, 1987.

Encyclopedia of Mathematics Education Dec 20 2022 First published in 2001. Routledge is an imprint of Taylor & Francis, an informa company.

Highways and Byways in Cambridge and Ely Sep 24 2020

The Pythagorean Theorem Nov 14 2019 An exploration of one of the most celebrated and well-known theorems in mathematics. By any measure, the Pythagorean theorem is the most famous statement in all of mathematics. In this book, Eli Maor reveals the full story of this ubiquitous geometric theorem. Although attributed to Pythagoras, the theorem was known to the Babylonians more than a thousand years earlier. Pythagoras may have been the first to prove it, but his proof—if indeed he had one—is lost to us. The theorem itself, however, is central to almost every branch of science, pure or applied. Maor brings to life many of the characters that played a role in its history, providing a fascinating backdrop to perhaps our oldest enduring mathematical legacy.

The Music of the Primes Feb 27 2021 Examines German mathematician Bernhard Riemann's hypothesis on imaginary numbers, sine waves, and prime numbers and attempts to unravel the mystery surrounding it.

Sacred Mathematics Nov 26 2020 Between the seventeenth and nineteenth centuries Japan was totally isolated from the West by imperial decree. During that time, a unique brand of homegrown mathematics flourished, one that was completely uninfluenced by developments in Western mathematics. People from all walks of life--samurai, farmers, and merchants--inscribed a wide variety of geometry problems on wooden tablets called sangaku and hung them in Buddhist temples and Shinto shrines throughout Japan. *Sacred Mathematics* is the first book published in the West to fully examine this tantalizing--and incredibly beautiful--mathematical tradition. Fukagawa Hidetoshi and Tony Rothman present for the first time in English excerpts from the travel diary of a nineteenth-century Japanese mathematician, Yamaguchi Kanzan, who journeyed on foot throughout Japan to collect temple geometry problems. The authors set this fascinating travel narrative--and almost everything else that is known about temple geometry--within the broader cultural and historical context of the period. They explain the sacred and devotional aspects of sangaku, and reveal how Japanese folk mathematicians discovered many well-known theorems independently of mathematicians in the West--and in some cases much earlier. The book is generously illustrated with photographs of the tablets and stunning artwork of the period. Then there are the geometry problems themselves, nearly two hundred of them, fully illustrated and ranging from the utterly simple to the virtually impossible. Solutions for most are provided. A unique book in every respect, *Sacred Mathematics* demonstrates how mathematical thinking can vary by culture yet transcend cultural and geographic boundaries.

A Day in the Life of a Poo, a Gnu, and You Feb 16 2020 Packed with comics, diagrams, and “secret diaries,” this book is a wondrous, encyclopedic glance at a dizzying host of different things—from hearts to farts to coconuts—and makes a hilarious and informative guide for curious young readers. Join the hilarious exploration of “a day in the life” of nearly 100 things on Earth. Find out what exactly your tongue does all day long, how a Japanese knotweed destroys everything in its path, and why no two snowflakes are ever the same. From the gross and smelly to the beautiful and fascinating, this book is a treasure trove of entertaining information.

Here's Looking at Euclid May 13 2022 Too often math gets a bad rap, characterized as dry and difficult. But, Alex Bellos says, “math can be inspiring and brilliantly creative. Mathematical thought is one of the great achievements of the human race, and arguably the foundation of all human progress. The world of mathematics is a remarkable place.” Bellos has traveled all around the globe and has plunged into history to uncover fascinating stories of mathematical achievement, from the breakthroughs of Euclid, the greatest mathematician of all time, to the creations of the Zen master of origami, one of the hottest areas of mathematical work today. Taking us into the wilds of the Amazon, he tells the story of a tribe there who can count only to five and reports on the latest findings about the math instinct—including the revelation that ants can actually count how many steps they’ve taken. Journeying to the Bay of Bengal, he interviews a Hindu sage about the brilliant mathematical insights of the

Buddha, while in Japan he visits the godfather of Sudoku and introduces the brainteasing delights of mathematical games. Exploring the mysteries of randomness, he explains why it is impossible for our iPods to truly randomly select songs. In probing the many intrigues of that most beloved of numbers, pi, he visits with two brothers so obsessed with the elusive number that they built a supercomputer in their Manhattan apartment to study it. Throughout, the journey is enhanced with a wealth of intriguing illustrations, such as of the clever puzzles known as tangrams and the crochet creation of an American math professor who suddenly realized one day that she could knit a representation of higher dimensional space that no one had been able to visualize. Whether writing about how algebra solved Swedish traffic problems, visiting the Mental Calculation World Cup to disclose the secrets of lightning calculation, or exploring the links between pineapples and beautiful teeth, Bellos is a wonderfully engaging guide who never fails to delight even as he edifies. Here's Looking at Euclid is a rare gem that brings the beauty of math to life.

The Millionaires' Death Club Sep 05 2021 The Millionaires' Death Club is the most secret club on earth. It provides exclusive access to the greatest pleasure mankind has ever known. There's just one problem. Membership is fatal. When two terminally bored Hollywood superstars hear an urban legend that some English students have discovered the secret of ultimate pleasure, they come to London to discover if the rumours are true. They employ young socialite Sophie York to help them. Sophie is a forgotten Reality TV contestant and a self-styled entertainment consultant. She thinks she's landed the job of her dreams but when she and her famous clients collide head on with Oxford University's richest, smartest and most sinister students, it soon becomes a nightmare. The Millionaires' Death Club is a chick lit thriller...with the wickedest of twists.

How Math Can Save Your Life Dec 28 2020 How to make lots of money, keep yourself safe, and even save the world-all by using a little simple math Forget the dull, boring math you learned in school. This book shows you the powerful things math can do for you, with applications no teacher ever taught you in algebra class. How can you make money off credit card companies? Will driving a hybrid save you money in the long run? How do you know when he or she is "the one"? From financial decisions to your education, job, health, and love life, you'll learn how the math you already know can help you get a lot more out of life. Gives you fun, practical advice for using math to improve virtually every area of daily life Includes straightforward explanations and easy-to-follow examples Written by the author of the successful guide, How Math Explains the World Filled with practical, indispensable guidance you can put to work every day, this book will safeguard your wallet and enrich every aspect of your life. You can count on it!

The Whole Truth About Whole Numbers Aug 24 2020 The Whole Truth About Whole Numbers is an introduction to the field of Number Theory for students in non-math and non-science majors who have studied at least two years of high school algebra. Rather than giving brief introductions to a wide variety of topics, this book provides an in-depth introduction to the field of Number Theory. The topics covered are many of those included in an introductory Number Theory course for mathematics majors, but the presentation is carefully tailored to meet the needs of elementary education, liberal arts, and other non-mathematical majors. The text covers logic and proofs, as well as major concepts in Number Theory, and contains an abundance of worked examples and exercises to both clearly illustrate concepts and evaluate the students' mastery of the material.

Five-Minute Mathematics Oct 18 2022 How much math can you cover in five minutes? Quite a bit, if you have a good guide. In this collection of one hundred short essays, Ehrhard Behrends offers a tour through contemporary and everyday mathematics. The topics range from pure mathematics to applications of mathematics to observations about the mathematics that surrounds us in daily life. Here, we read about the parable of grains of rice on a chessboard, the mathematics of the lottery, music and mathematics, intriguing paradoxes, the concept of infinity, the Poincare conjecture, quantum computers, and plenty more.

Explorations in Mathematics Jan 21 2023

Elementary Number Theory with Applications Aug 16 2022 This second edition updates the well-regarded 2001 publication with new short sections on topics like Catalan numbers and their relationship to Pascal's triangle and Mersenne numbers, Pollard rho factorization method, Hoggatt-Hensell identity. Koshy has added a new chapter on continued fractions. The unique features of the first edition like news of recent discoveries, biographical sketches of mathematicians, and applications--like the use of congruence in scheduling of a round-robin tournament--are being refreshed with current information. More challenging exercises are included both in the textbook and in the instructor's manual. Elementary Number Theory with Applications 2e is ideally suited for undergraduate students and is especially appropriate for prospective and in-service math teachers at the high school and middle school levels. * Loaded with pedagogical features including fully worked examples, graded exercises, chapter summaries, and computer exercises * Covers crucial applications of theory like computer security, ISBNs, ZIP codes, and UPC bar codes * Biographical sketches lay out the history of mathematics, emphasizing its roots in India and the Middle East

From China to Paris Jan 29 2021 The reports of a conference of 11 scholars who began the task of examining together primary sources that might shed some light on exactly how and in what forms mathematical problems, concepts, and techniques may have been transmitted between various civilizations, from antiquity down to the European Renaissance following more or less the legendary silk routes between China and Western Europe.

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