

# **Rediscovering Mathematics**

Roger B. Nelsen

# **Rediscovering Mathematics:**

**Rediscovering Mathematics** Shai Simonson, 2011-04-14 A guide to effective mathematical education including a collection of topics and puzzles which aim to reignite interest in mathematics Rediscovering Mathematics Shai Simonson, 2019-07-30 Rediscovering Mathematics is aimed at a general audience and addresses the guestion of how best to teach and study mathematics. The book attempts to bring the exciting and dynamic world of mathematics to a non technical audience With so much focus today on how best to educate the new generation and make mathematics less rote and more interactive this book is an eye opening experience for many people who suffered with dull math teachers and curricula Rediscovering Mathematics is an eclectic collection of mathematical topics and puzzles aimed at talented youngsters and inquisitive adults who want to expand their view of mathematics By focusing on problem solving and discouraging rote memorization the book shows how to learn and teach mathematics through investigation experimentation and discovery Rediscovering Mathematics is also an excellent text for training math teachers at all levels Topics range in difficulty and cover a wide range of historical periods with some examples demonstrating how to uncover mathematics in everyday life including number theory and its application to secure communication over the Internet the algebraic and combinatorial work of a medieval mathematician Rabbi and applications of probability to sports casinos and gambling Rediscovering Mathematics provides a fresh view of mathematics for those who already like the subject and offers a second chance for Rediscovering Mathematics for the Caribbean Adrian Mandara, 2013 those who think they don t Rediscovering Rediscovring Mathematics for the Caribbean Adrain Mandara, 2016 Mathematics for the Caribbean Adrain Mandara, 2014

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undergraduate course in geometry or as a stand alone introduction to advanced topics in Euclidean geometry The text consists almost entirely of exercises with hints that guide students as they discover the geometric relationships for themselves First the ideas are explored at the computer and then those ideas are assembled into a proof of the result under investigation The goals are for the reader to experience the joy of discovering geometric relationships to develop a deeper understanding of geometry and to encourage an appreciation for the beauty of Euclidean geometry **Discrete Dynamical Systems** Aimee Johnson, Kathleen Madden, Ayse Sahin, 2017-12-31 Discovering Discrete Dynamical Systems is a mathematics textbook designed for use in a student led inquiry based course for advanced mathematics majors Fourteen modules each with an opening exploration a short exposition and related exercises and a concluding project guide students to self discovery on topics such as fixed points and their classifications chaos and fractals Julia and Mandelbrot sets in the complex plane and symbolic dynamics Topics have been carefully chosen as a means for developing student persistence and skill in exploration conjecture and generalization while at the same time providing a coherent introduction to the fundamentals of discrete dynamical systems This book is written for undergraduate students with the prerequisites for a first analysis course and it can easily be used by any faculty member in a mathematics department regardless of area of expertise Each module starts with an exploration in which the students are asked an open ended question This allows the students to make discoveries which lead them to formulate the questions that will be addressed in the exposition and exercises of the module The exposition is brief and has been written with the intent that a student who has taken or is ready to take a course in analysis can read the material independently The exposition concludes with exercises which have been designed to both illustrate and explore in more depth the ideas covered in the exposition Each module concludes with a project in which students bring the ideas from the module to bear on a more challenging or in depth problem A section entitled To the Instructor includes suggestions on how to structure a course in order to realize the inquiry based intent of the book The book has also been used successfully as the basis for an independent study course and as a supplementary text for **Practmath -1** B. Tugay KECECİ,2021-01-01 Practmath 1 Mental Calculation an analysis course with traditional content Technics Primary And Equivalent Schools Special Edition Imagine waking up tomorrow being able to do lightning fast math in your head Your family friends will look at you like you are some kind of a genius Since you do the calculations in your head you will acquire better mental habits in the process So you will not just look like a genius You will actually be one This book is that book Practmath is the math book you wish you had in school Practmath is your guide to becoming a math genius even if you have struggled with math in the past Believe it or not you have the ability to perform lightning quick calculations that will astonish your friends family and teachers You ll be able to master your multiplication tables in minutes and learn basic number facts while doing it While the other kids in class are still writing down the problems you can be calling out the answers Practmath is all about playing with mathematics This fun filled book will teach you How to multiply and divide large

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arithmetic even though geometric elements are introduced whenever warranted For example what the Euclidean Algorithm for finding the greatest common divisors of two numbers has to do with Euclid is showcased Many students find mathematics somewhat daunting It is the Author's belief that much of that is caused not by the subject itself but by the language of mathematics In this book much of the discussion is in dialogues between Alice of Wonderland fame and the twins Tweedledum and Tweedledee who hailed from Through the Looking Glass The boys are learning High Arithmetic or Elementary Number Theory from Alice and the reader is carried along in this academic exploration Thus many formal proofs are converted to soothing everyday language Nevertheless the book has considerable depth It examines many arcane corners of the subject and raises rather unorthodox questions For instance Alice tells the twins that six divided by three is two only because of an implicit assumption that division is supposed to be fair whereas fairness does not come into addition subtraction or multiplication Some topics often not covered are introduced rather early such as the concepts of divisibility and congruence **Explorations in Complex Analysis** Michael A. Brilleslyper, Michael J. Dorff, Jane M. McDougall, James S. Rolf, Lisbeth E. Schaubroeck, 2012-12-31 Research topics in the book include complex dynamics minimal surfaces fluid flows harmonic conformal and polygonal mappings and discrete complex analysis via circle packing The nature of this book is different from many mathematics texts the focus is on student driven and technology enhanced investigation Interlaced in the reading for each chapter are examples exercises explorations and projects nearly all linked explicitly with computer applets for visualization and hands on manipulation The Heart of Calculus Philip M. Anselone, John W. Lee, 2015-12-31 This book contains enrichment material for courses in first and second year calculus differential equations modeling and introductory real analysis It targets talented students who seek a deeper understanding of calculus and its applications The book can be used in honors courses undergraduate seminars independent study capstone courses taking a fresh look at calculus and summer enrichment programs The book develops topics from novel and or unifying perspectives Hence it is also a valuable resource for graduate teaching assistants developing their academic and pedagogical skills and for seasoned veterans who appreciate fresh perspectives The explorations problems and projects in the book impart a deeper understanding of and facility with the mathematical reasoning that lies at the heart of calculus and conveys something of its beauty and depth A high level of rigor is maintained However with few exceptions proofs depend only on tools from calculus and earlier Analytical arguments are carefully structured to avoid epsilons and deltas Geometric and or physical reasoning motivates challenging analytical discussions Consequently the presentation is friendly and accessible to students at various levels of mathematical maturity Logical reasoning skills at the level of proof in Euclidean geometry suffice for a productive use of the book Mathematics Galore! James Tanton, 2012-12-31 Mathematics Galore Showcases some of the best activities and student outcomes of the St Mark's Institute of Mathematics and invites you to engage the mathematics yourself Revel in the delight of deep intellectual play and marvel at the heights to which young scholars can rise See some great

mathematics explained and proved via natural and accessible means Based on 26 essays newsletters and eight additional pieces Mathematics Galore offers a large sample of mathematical tidbits and treasures each immediately enticing and each a gateway to layers of surprising depth and conundrum Pick and read essays in no particular order and enjoy the mathematical stories that unfold Be inspired for your courses your math clubs and your math circles or simply enjoy for yourself the bounty of research questions and intriguing puzzlers that lie within

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