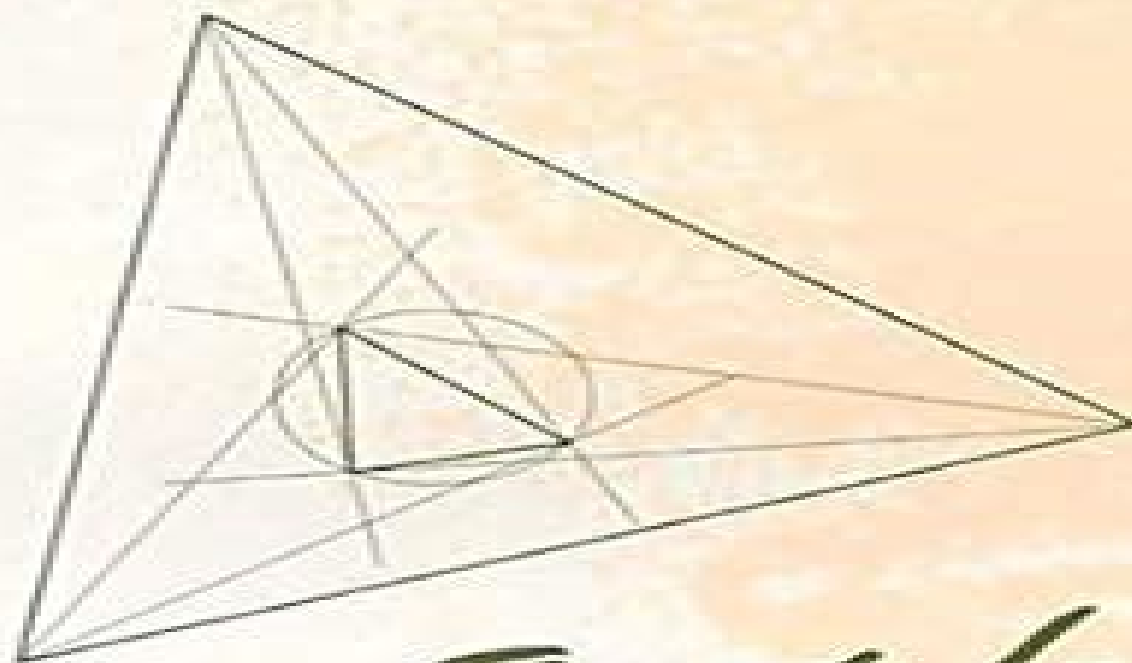




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Non-Euclidean Geometry H. S. M. Coxeter, 1998-09-17 A reissue of Professor Coxeter's classic text on non Euclidean geometry It surveys real projective geometry and elliptic geometry After this the Euclidean and hyperbolic geometries are built up axiomatically as special cases This is essential reading for anybody with an interest in geometry

Who Gave You the Epsilon? Marlow Anderson, Victor Katz, Robin Wilson, 2009-03-31 Follows on from Sherlock Holmes in Babylon to take the history of mathematics through the nineteenth and twentieth centuries

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New Mexico Mathematics Contest Problem Book Liang-shin Hahn, 2005 The New Mexico Mathematics Contest for high school students has been held annually since 1966 Each November thousands of middle and high school students from all over New Mexico converge to battle with elementary but tricky math problems The 200 highest scoring students meet for the second round the following February at the University of New Mexico in Albuquerque where they listen to a prominent mathematician give a keynote lecture have lunch and then get down to round two an even more challenging set of mathematical mind twisters Liang shin Hahn was charged with the task of creating a new set of problems each year for the

New Mexico Mathematics Contest 1990 1999 In this volume Hahn has collected the 138 best problems to appear in these contests over the last decades They range from the simple to the highly challenging none are trivial The solutions contain many clever analyses and often display uncommon ingenuity His questions are always interesting and relevant to teenage contestants Young people training for competitions will not only learn a great deal of useful mathematics from this book but and this is much more important they will take a step toward learning to love mathematics

Geometry Turned On James King, Doris Schattschneider, 1997-10-30 Articles about the uses of active exploratory geometry carried out with interactive computer software

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Calculus Deconstructed Zbigniew H. Nitecki, 2009-05-21 Calculus Deconstructed is a thorough and mathematically rigorous exposition of single variable calculus for readers with some previous exposure to calculus techniques but not to methods of proof This book is appropriate for a beginning Honors Calculus course assuming high school calculus or a bridge course using basic analysis to motivate and illustrate mathematical rigor It can serve as a combination textbook and reference book for individual self study Standard topics and techniques in single variable calculus are presented in context of a coherent logical structure building on familiar properties of real numbers and teaching methods of proof by example along the way Numerous examples reinforce both practical and theoretical understanding and extensive historical notes explore the arguments of the originators of the subject No previous experience with mathematical proof is assumed rhetorical strategies and techniques of proof reductio ad absurdum induction contrapositives etc are introduced by example along the way Between the text and exercises proofs are available for all the basic results of calculus for functions of one real variable

The Lighter Side of Mathematics Richard K. Guy, Robert E. Woodrow, 1994 A collection of wonderful articles on recreational mathematics by a distinguished group of authors

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Dunnington, Jeremy Gray, Fritz-Egbert Dohse, 2004-10-14 Classic biography of Gauss updated with new introduction bibliography and new material

Musings of the Masters Raymond Ayoub, 2004 The anthology is a collection of articles written by renowned mathematicians of the twentieth century The articles span roughly a century in time and a wide range in subject They are by mathematicians acknowledged by their peers as outstanding creators whose work has added richly to the discipline

Remarkable Mathematicians Ioan James, 2003-02-06 Ioan James introduces and profiles sixty mathematicians from the era when mathematics was freed from its classical origins to develop into its modern form The subjects all born between 1700 and 1910 come from a wide range of countries and all made important contributions to mathematics through their ideas their teaching and their influence James emphasizes their varied life stories not the details of their mathematical achievements The book is organized chronologically into ten chapters each of which contains biographical sketches of six mathematicians The men and women James has chosen to portray are representative of the history of mathematics such that their stories when read in sequence convey in human terms something of the way in which mathematics developed Ioan James is a professor at the Mathematical Institute University of Oxford He is the author of Topological Topics Cambridge 1983 Fibrewise Topology Cambridge 1989 Introduction to Uniform Spaces Cambridge 1990 Topological and Uniform Spaces Springer Verlag New York 1999 and co author with Michael C Crabb of Fibrewise Homotopy Theory Springer Verlag New York 1998 James is the former editor of the London Mathematical Society Lecture Note Series and volume editor of numerous books He is the organizer of the Oxford Series of Topology symposia and other conferences and co chairman of the Task Force for Mathematical Sciences of Campaign for Oxford

R.L. Moore John Parker, 2005 R L Moore Mathematician and Teacher presents a full and frank biography of a mathematician recognized as one of the principal figures in the 20th Century progression of the American school of point set topology He was equally well known as creator of the Moore Method no textbooks no lectures no conferring in which there is a current and growing revival of interest and modified application under inquiry based learning projects in both the United States and the United Kingdom Parker draws on oral history with first person recollections from many leading figures in the American mathematics community of the last half century The story embraces some of the most famous and influential mathematical names in America and Europe from the late 1900s in what is undoubtedly a lively account of this controversial figure once described as Mr Chips with Attitude He was the first American to become a Visiting Lecturer for the American Mathematical Society was a member of the National Academy of Sciences published 68 papers and a book that is still referred to seventy years later and that has been the subject of literally hundreds of papers by other mathematicians around the globe Three of Moore s students followed him as president of the American Mathematical Society and three others became vice presidents Five served as president of the Mathematical Association of America and three became members of the National Academy of Sciences

Circles Daniel Pedoe, 1995 Illuminates the fundamental aspects of geometry where the circle plays an important role

The Golden

Section Hans Walser, 2001-09-13 The Golden Section has played a part since antiquity in many parts of geometry architecture music art and philosophy However it also appears in the newer domains of technology and fractals This book aims both to describe examples of the Golden Section and to show some paths to further developments *Symmetry* Hans Walser, 2000 We are all familiar with the everyday notion of two sided symmetry as viewed for example in the external form of the human body But in its broadest interpretation symmetry is a property which involves regularity and repetition In this sense symmetry can be found everywhere especially in science and art The aim of this book is to present selected examples of symmetry drawn from a wide variety of topics in a way that will be understandable to students and teachers of mathematics as well as to the interested layman **Cryptology** Albrecht Beutelspacher, 1994 The art science of secret writing Provides ideal methods to solve the problems of transmitting information secretly securely

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