

Student Research Projects in Calculus

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and David Pengelley



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Student Research Projects In Calculus Spectrum Series

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The Trisectors Underwood Dudley, 2019-07-01 Underwood Dudley is well known for his collection of books on mathematical cranks. Here he offers yet another angle trisectors. It is impossible to trisect angles with straightedge and compass alone, but many people try and think they have succeeded. This book is about angle trisections and the people who attempt them. According to Dudley, hardly any mathematical training is necessary to read this book. There is a little trigonometry here and there, but it may be safely skipped. There are hardly any equations. There are no exercises, and there will be no final examination. The worst victim of *Complex Numbers and Geometry* Liang-shin Hahn, 2019-12-26. The purpose of this book is to demonstrate that complex numbers and geometry can be blended together beautifully. This results in easy proofs and natural generalizations of many theorems in plane geometry, such as the Napoleon theorem, the Ptolemy-Euler theorem, the Simson theorem, and the Morley theorem. The book is self-contained; no background in complex numbers is assumed and can be covered at a leisurely pace in a one-semester course. Many of the chapters can be read independently. Over 100 exercises are included. The book would be suitable as a text for a geometry course or for a problem-solving seminar or as enrichment for the student who wants to know more.

[An Investigation of University Students' Understanding of the Fundamental Theorem of Calculus](#) Julie Ellen Dent, 1995

[The Lighter Side of Mathematics: Proceedings of the Eugene Strens Memorial Conference on Recreational Mathematics and Its History](#) Richard K. Guy, Robert E. Woodrow, 2020-08-03. In August of 1986, a special conference on recreational mathematics was held at the University of Calgary to celebrate the founding of the Strens Collection. Leading practitioners of recreational mathematics from around the world gathered in Calgary to share with each other the joy and spirit of play that is to be found in recreational mathematics. It would be difficult to find a better collection of wonderful articles on recreational mathematics by a more distinguished group of authors. If you are interested in tessellations, Escher tilings, Rubik's cube, pentominoes, games, puzzles, the arbelos, Henry Dudeney, or change ringing, then this book is for you.

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 **Journey into Geometries** Marta Sved,2020-07-31 *Proofs and Confirmations* David M. Bressoud,1999-08-13 This is an introduction to recent developments in algebraic combinatorics and an illustration of how research in mathematics actually progresses The author recounts the story of the search for and discovery of a proof of a formula conjectured in the late 1970s the number of $n \times n$ alternating sign matrices objects that generalize permutation matrices While apparent that the conjecture must be true the proof was elusive Researchers became drawn to this problem making connections to aspects of invariant theory to symmetric functions to hypergeometric and basic hypergeometric series and finally to the six vertex model of statistical mechanics All these threads are brought together in Zeilberger s 1996 proof of the original conjecture The book is accessible to anyone with a knowledge of linear algebra Students will learn what mathematicians actually do in an interesting and new area of mathematics and even researchers in combinatorics will find something new here Calculus Arthur Wayne Roberts,1996

The Search for E. T. Bell Constance Reid,1993 This is a compelling account of this complicated difficult man **Circles: A Mathematical View** Dan Pedoe,2020-08-03 This revised edition of a mathematical classic originally published in 1957 will bring to a new generation of students the enjoyment of investigating that simplest of mathematical figures the circle The author has supplemented this new edition with a special chapter designed to introduce readers to the vocabulary of circle concepts with which the readers of two generations ago were familiar Readers of Circles need only be armed with paper pencil compass and straight edge to find great pleasure in following the constructions and theorems Those who think that geometry using Euclidean tools died out with the ancient Greeks will be pleasantly surprised to learn many interesting results which were only discovered in modern times Novices and experts alike will find much to enlighten them in chapters dealing with the representation of a circle by a point in three space a model for non Euclidean geometry and the isoperimetric property of the circle

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