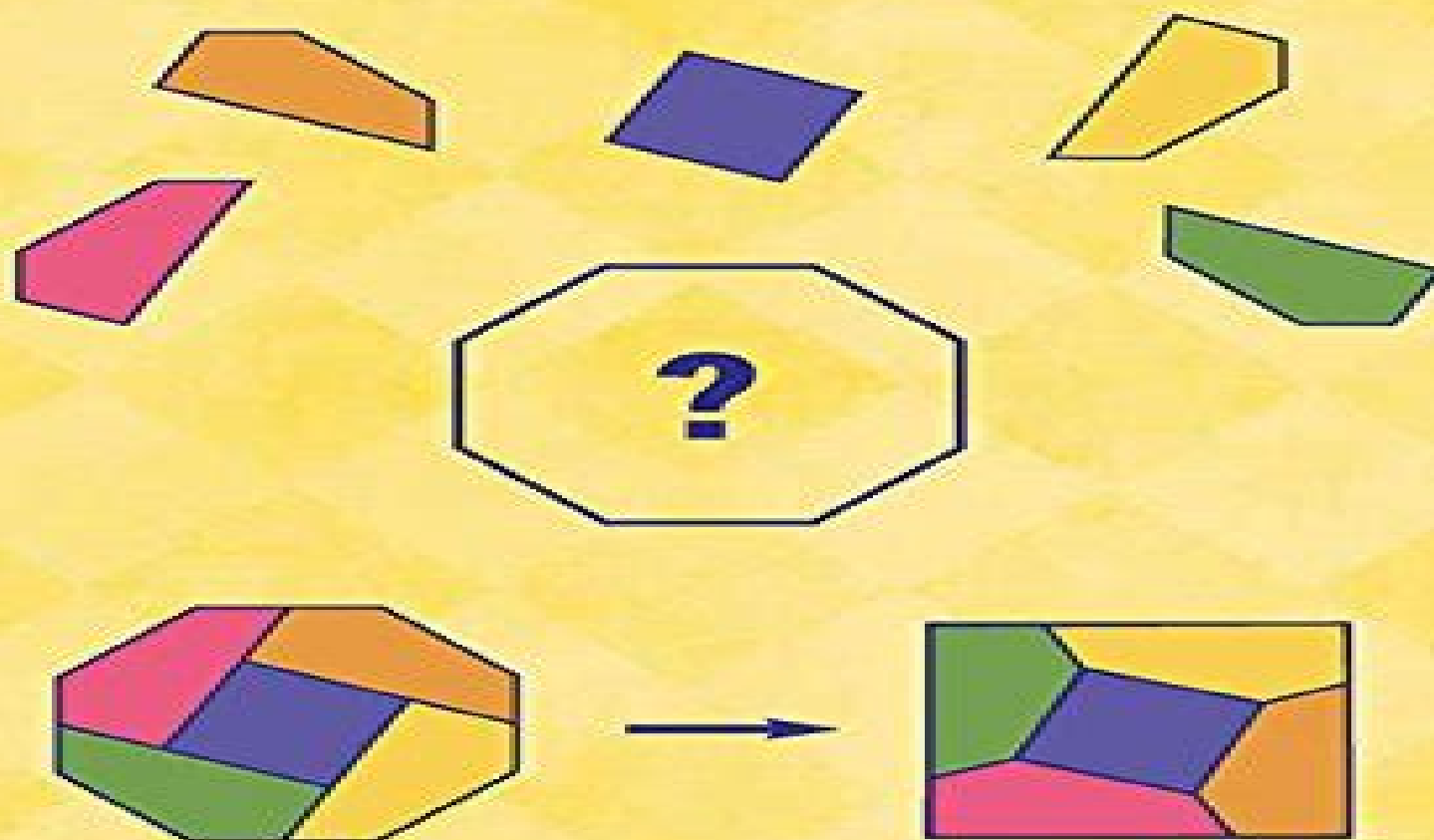


Miklós Laczkovich

CONJECTURE AND PROOF

Classroom Resource Materials



THE MATHEMATICAL ASSOCIATION OF AMERICA

Conjecture And Proof Classroom Resource Materials

Robert L. Brabenec



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Resources for the Study of Real Analysis Robert L. Brabenec, 2004 A collection of materials gathered by the author while teaching real analysis over a period of years

A Radical Approach to Real Analysis David M. Bressoud, 2007-04-12 Second edition of this introduction to real analysis rooted in the historical issues that shaped its development

The Calculus Collection Caren L. Diefenderfer, Roger B. Nelsen, 2010-12-31 The Calculus Collection is a useful resource for everyone who teaches calculus in high school or in a 2 or 4 year college or university It consists of 123 articles selected by a panel of six veteran high school teachers each of which was originally published in Math Horizons MAA Focus The American Mathematical Monthly The College Mathematics Journal or Mathematics Magazine The articles focus on engaging students who are meeting the core ideas of calculus for the first time The Calculus Collection is filled with insights alternate explanations of difficult ideas and suggestions for how to take a standard problem and open it up to the rich mathematical explorations available when you encourage students to dig a little deeper Some of the articles reflect an enthusiasm for bringing calculators and computers into the classroom while others consciously address themes from the calculus reform movement But most of the articles are simply interesting and timeless explorations of the mathematics encountered in a first course in calculus

Which Numbers Are Real? Michael

Henle,2012-12-31 Everyone knows the real numbers those fundamental quantities that make possible all of mathematics from high school algebra and Euclidean geometry through the Calculus and beyond and also serve as the basis for measurement in science industry and ordinary life This book surveys alternative real number systems systems that generalize and extend the real numbers yet stay close to these properties that make the reals central to mathematics Alternative real numbers include many different kinds of numbers for example multidimensional numbers the complex numbers the quaternions and others infinitely small and infinitely large numbers the hyperreal numbers and the surreal numbers and numbers that represent positions in games the surreal numbers Each system has a well developed theory including applications to other areas of mathematics and science such as physics the theory of games multi dimensional geometry and formal logic They are all active areas of current mathematical research and each has unique features in particular characteristic methods of proof and implications for the philosophy of mathematics both highlighted in this book Alternative real number systems illuminate the central unifying role of the real numbers and include some exciting and eccentric parts of mathematics Which Numbers Are Real Will be of interest to anyone with an interest in numbers but specifically to upper level undergraduates graduate students and professional mathematicians particularly college mathematics teachers

Differential Geometry and Its Applications John Oprea,2007-09-06 This book studies the differential geometry of surfaces and its relevance to engineering and the sciences

Ordinary Differential Equations David A. Sanchez,2002-12-31 For the instructor or student confronting an introductory course in ordinary differential equations there is a need for a brief guide to the key concepts in the subject Important topics like stability resonance existence of periodic solutions and the essential role of continuation of solutions are often engulfed in a sea of exercises in integration linear algebra theory computer programming and an overdose of series expansions This book is intended as that guide It is more conceptual than definitive and more light hearted than pedagogic It covers key topics and theoretical underpinnings that are necessary for the study of rich topics like nonlinear equations or stability theory The Author has included a great many illuminating examples and discussions that uncover the conceptual heart of the matter

Discovering 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 an analysis course with traditional content

Exploring Advanced Euclidean Geometry with GeoGebra Gerard A. Venema, 2025-08-15 This book provides an inquiry based introduction to advanced Euclidean geometry It utilizes dynamic geometry software specifically GeoGebra to explore the statements and proofs of many of the most interesting theorems in the subject Topics covered include triangle centers inscribed circumscribed and escribed circles medial and orthic triangles the nine point circle duality and the theorems of Ceva and Menelaus as well as numerous applications of those theorems The final chapter explores constructions in the Poincaré disk model for hyperbolic geometry The book can be used either as a computer laboratory manual to supplement an 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

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