

Paradox+es and Sophisms in Calculus

Edited by
Sergiy Klymenko
Student Samples



Classroom Resource Materials

Paradoxes And Sophisms In Calculus Classroom Resource Materials

Sergiy Klymchuk, Susan Staples

Paradoxes And Sophisms In Calculus Classroom Resource Materials:

Paradoxes and Sophisms in Calculus Sergiy Klymchuk,Susan Staples,2013-12-31 Paradoxes and Sophisms in Calculus offers a delightful supplementary resource to enhance the study of single variable calculus By the word paradox the Author s mean a surprising unexpected counter intuitive statement that looks invalid but in fact is true The word sophism describes intentionally invalid reasoning that looks formally correct but in fact contains a subtle mistake or flaw In other words a sophism is a false proof of an incorrect statement A collection of over fifty paradoxes and sophisms showcases the subtleties of this subject and leads students to contemplate the underlying concepts A number of the examples treat historically significant issues that arose in the development of calculus while others more naturally challenge readers to understand common misconceptions Sophisms and paradoxes from the areas of functions limits derivatives integrals sequences and series are explored

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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 Poincar 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

Introduction to the Mathematics of Computer Graphics Nathan Carter,2016-12-31 This text by an award winning Author was designed to accompany his first year seminar in the mathematics of computer graphics Readers

learn the mathematics behind the computational aspects of space shape transformation color rendering animation and modeling The software required is freely available on the Internet for Mac Windows and Linux The text answers questions such as these How do artists build up realistic shapes from geometric primitives What computations is my computer doing when it generates a realistic image of my 3D scene What mathematical tools can I use to animate an object through space Why do movies always look more realistic than video games Containing the mathematics and computing needed for making their own 3D computer generated images and animations the text and the course it supports culminates in a project in which students create a short animated movie using free software Algebra and trigonometry are prerequisites calculus is not though it helps Programming is not required Includes optional advanced exercises for students with strong backgrounds in math or computer science Instructors interested in exposing their liberal arts students to the beautiful mathematics behind computer graphics will find a rich resource in this text

Game Theory through Examples Erich Prisner, 2014-12-31

Game Theory through Examples is a thorough introduction to elementary game theory covering finite games with complete information The core philosophy underlying this volume is that abstract concepts are best learned when encountered first and repeatedly in concrete settings Thus the essential ideas of game theory are here presented in the context of actual games real games much more complex and rich than the typical toy examples All the fundamental ideas are here Nash equilibria backward induction elementary probability imperfect information extensive and normal form mixed and behavioral strategies The active learning example driven approach makes the text suitable for a course taught through problem solving Students will be thoroughly engaged by the extensive classroom exercises compelling homework problems and nearly sixty projects in the text Also available are approximately eighty Java applets and three dozen Excel spreadsheets in which students can play games and organize information in order to acquire a gut feeling to help in the analysis of the games Mathematical exploration is a deep form of play that maxim is embodied in this book Game Theory through Examples is a lively introduction to this appealing theory Assuming only high school prerequisites makes the volume especially suitable for a liberal arts or general education spirit of mathematics course It could also serve as the active learning supplement to a more abstract text in an upper division game theory course

101 Careers in Mathematics Andrew Sterrett, 2014-12-31

This third edition of the immensely popular 101 Careers in Mathematics contains updates on the career paths of individuals profiled in the first and second editions along with many new profiles No career counselor should be without this valuable resource The Author s of the essays in this volume describe a wide variety of careers for which a background in the mathematical sciences is useful Each of the jobs presented shows real people in real jobs Their individual histories demonstrate how the study of mathematics was useful in landing well paying jobs in predictable places such as IBM AT s profiled here range from bachelor s to master s to PhD in approximately equal numbers Most of the writers use the mathematical sciences on a daily basis in their work Others rely on the general problem solving skills acquired in

mathematics as they deal with complex issues *Arithmetical Wonderland* Andy Liu,2015-12-31 Arithmetical Wonderland is intended as an unorthodox mathematics textbook for students in elementary education in a contents course offered by a mathematics department The scope is deliberately restricted to cover only 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 *Counterexamples in Calculus* Sergiy Klymchuk,2010-12-31 Counterexamples in Calculus serves as a supplementary resource to enhance the learning experience in single variable calculus courses This book features carefully constructed incorrect mathematical statements that require students to create counterexamples to disprove them Methods of producing these incorrect statements vary At times the converse of a well known theorem is presented In other instances crucial conditions are omitted or altered or incorrect definitions are employed Incorrect statements are grouped topically with sections devoted to Functions Limits Continuity Differential Calculus and Integral Calculus This book aims to fill a gap in the literature and provide a resource for using counterexamples as a pedagogical tool in the study of introductory calculus

Physical Paradoxes and Sophisms V. N. Lange,1989 *Paradoxes in Mathematics* Stanley J. Farlow,2014-02-20 Students and puzzle enthusiasts will get plenty of enjoyment plus some painless mathematical instruction from 28 conundrums including The Curve That Shook the World Space Travel in a Wineglass and Through Cantor s Looking Glass **Paradoxes** Hamza E. Alsamraee,2020-09-10 Does 999

1 Can you cut and reassemble a sphere into two identically sized spheres Is the consistency of mathematical systems unprovable Surprisingly the answer to all of these questions is yes And at the heart of each question there lies paradox For millennia paradoxes have shaped mathematics and guided mathematical progress forwards From the ancient paradoxes of Zeno to the modern paradoxes of Russell paradoxes remind us of the constant need to revamp our mathematical understanding It is for this reason that paradoxes are so important Paradoxes Guiding Forces in Mathematical Exploration provides a survey of mathematical paradoxes spanning a wide variety of topics It delves into each paradox mathematically philosophically and historically and attempts to provide a full picture of how paradoxes contributed to the progress of

mathematics and guided it in many ways In addition it discusses how paradoxes can be useful as educational tools All of that plus the fact that it is written in a way that is accessible to anyone with a high school background in mathematics Entertaining and educational this book will appeal to any reader looking for a mathematical and philosophical challenge

Physical Paradoxes and Sophisms Viktor Nikolaevich Lange,1987 **An Analysis of Paradoxes in Propositional Calculus** R. Brandon Fradd,Princeton University. Department of Mathematics,1983 **Riddles in Mathematics** Eugene Purdy Northrop,1975

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