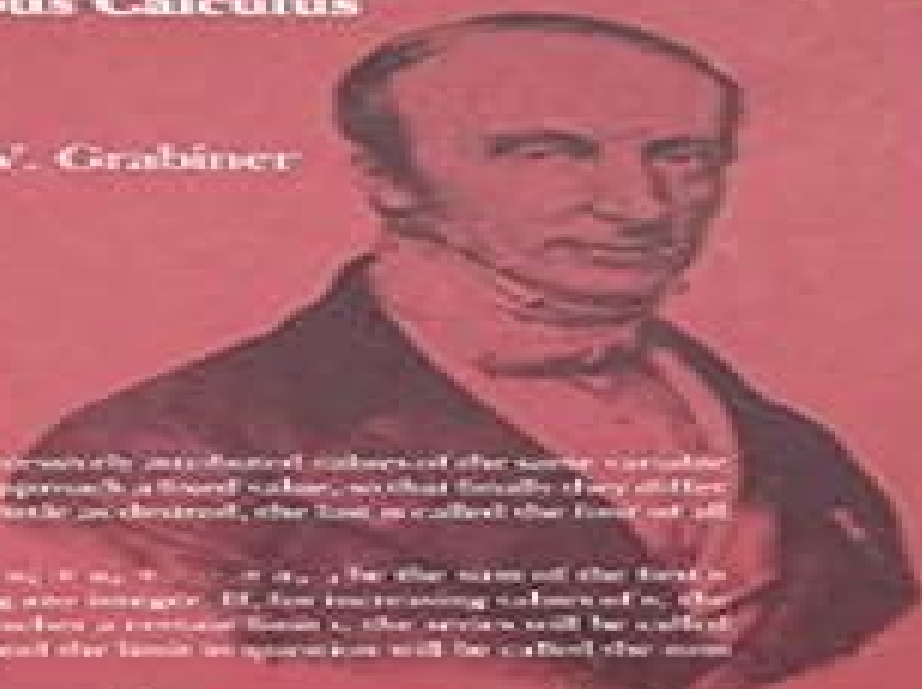


The Origins of Cauchy's Rigorous Calculus

Judith V. Grabiner



Cauchy's New Definitions

Limits

When the numerically infinitesimal values of the terms u_n indefinitely approach a fixed value, so that finally they differ from it by as little as desired, the limit is called the limit of all the values.

Convergence

Let $u_1, u_2, u_3, u_4, u_5, \dots, u_n, \dots$ be the terms of the series given, n being any integer. If the increasing values of n , the more u_n approaches a certain limit u , the series will be called convergent, and the limit in question will be called the sum of the series.

Continuity

The function $f(x)$ will be a continuous function of the variable x between two assigned limits $f(a)$ and $f(b)$ when $f(x)$, for each value of x between these limits, the numerical infinitesimal value of the difference $f(x) - u$ is $f(x)$ decreases indefinitely with x . In other words, the function $f(x)$ is continuous with respect to x between the given limits if, between these limits, an infinitely small increment in the variable always produces an infinitely small increment in the function itself.

Derivative

Let h , a few infinitely small numbers, the limit is a limit, so that for all numerical (that is, assigned) values of x from which h and the given value of x are both between the limits a , b , the ratio

$$\frac{f(x+h) - f(x)}{h}$$

will always be greater than $f'(x) - \epsilon$ and less than $f'(x) + \epsilon$.

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Craig Smorynski



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The Origins of Cauchy's Rigorous Calculus Judith V. Grabiner, 2011-10-20 This text examines the reinterpretation of calculus by Augustin Louis Cauchy and his peers in the 19th century These intellectuals created a collection of well defined theorems about limits continuity series derivatives and integrals 1981 edition *The Origins of Cauchy's Rigorous Calculus* Judith V. Grabiner, 2012-05-11 This text examines the reinterpretation of calculus by Augustin Louis Cauchy and his peers in the 19th century These intellectuals created a collection of well defined theorems about limits continuity series derivatives and integrals 1981 edition *Sherlock Holmes in Babylon and Other Tales of Mathematical History* Marlow Anderson, Victor Katz, Robin Wilson, 2022-04-26 Covering a span of almost 4000 years from the ancient Babylonians to the eighteenth century this collection chronicles the enormous changes in mathematical thinking over this time as viewed by distinguished historians of mathematics from the past and the present Each of the four sections of the book Ancient Mathematics Medieval and Renaissance Mathematics The Seventeenth Century The Eighteenth Century is preceded by a Foreword in which the articles are put into historical context and followed by an Afterword in which they are reviewed in the light of current historical scholarship In more than one case two articles on the same topic are included to show how knowledge and views about the topic changed over the years This book will be enjoyed by anyone interested in mathematics and its history and in particular by mathematics teachers at secondary college and university levels *Vita Mathematica* Ronald Calinger, 1996 Enables teachers to learn the history of mathematics and then incorporate it in undergraduate teaching **The Cambridge History of Science: Volume 4, Eighteenth-Century Science** David C. Lindberg, Roy Porter, Ronald L. Numbers, 2003-03-17 The fullest and most complete survey of the development of science in the eighteenth century *A Historian Looks Back* Judith V. Grabiner, 2010-10-14 Judith Grabiner has written extensively on the history of mathematics principally for mathematicians rather than historians This collection of her work highlights the benefits of studying the development of mathematical ideas and the relationship between culture and mathematics She also considers the struggles and successes of famous mathematicians with the aim of inspiring students and teachers alike A large part of this book is the author's *The Calculus as Algebra* J L Lagrange 1736 1813 which focuses on Lagrange's pioneering attempt to reduce the calculus to algebra The nine other articles are on a broad range of other topics such as some widely held myths about the history of mathematics and the work of heavyweight mathematicians such as Descartes Newton Maclaurin and Lagrange Six of these articles have won awards from the MAA for expository excellence This collection is an inspiring resource for history of mathematics courses **Oxford's Sedleian Professors of Natural Philosophy** Christopher Hollings, Mark McCartney, 2024-02-08 This edited volume traces the varied history of Oxford's Sedleian Professorship of Natural Philosophy through the first four centuries of its existence combining contributions from historians of medicine science mathematics and universities with personal reminiscences of some of the more recent holders of the post *MVT: A Most Valuable Theorem*

Craig Smorynski, 2017-04-07 This book is about the rise and supposed fall of the mean value theorem. It discusses the evolution of the theorem and the concepts behind it, how the theorem relates to other fundamental results in calculus, and modern re-evaluations of its role in the standard calculus course. The mean value theorem is one of the central results of calculus. It was called the fundamental theorem of the differential calculus because of its power to provide simple and rigorous proofs of basic results encountered in a first year course in calculus. In mathematical terms, the book is a thorough treatment of this theorem and some related results in the field. In historical terms, it is not a history of calculus or mathematics, but a case study in both. **MVT: A Most Valuable Theorem** is aimed at those who teach calculus, especially those setting out to do so for the first time. It is also accessible to anyone who has finished the first semester of the standard course in the subject and will be of interest to undergraduate mathematics majors as well as graduate students. Unlike other books, the present monograph treats the mathematical and historical aspects in equal measure, providing detailed and rigorous proofs of the mathematical results and even including original source material, presenting the flavour of the history.

History of Mathematics Craig Smorynski, 2007-12-10 General textbooks attempting to cover three thousand or so years of mathematical history must necessarily oversimplify just about everything, the practice of which can scarcely promote a critical approach to the subject. To counter this, *History of Mathematics* offers deeper coverage of key select topics, providing students with material that could encourage more critical thinking. It also includes the proofs of important results which are typically neglected in the modern history of mathematics curriculum.

Exploring Mathematics John Meier, Derek Smith, 2017-08-07 With exercises and projects, *Exploring Mathematics* supports an active approach to the transition to upper level theoretical math courses.

The Cartesian Mind Jorge Secada, Travis Tanner, Cecilia Wee, 2025-09-03 Descartes is widely acknowledged as a central figure in the origins of modernity. The nature of his thought and of the role it played is, however, a matter of considerable dispute among experts. *The Cartesian Mind* is a significant contribution to this debate. It covers the full extent of his work, not only placing it in its historical context but also exploring its reception, legacy, and contemporary significance. Comprising over 40 chapters by an international team of distinguished scholars, the collection is divided into 3 parts: Historical Context, Philosophical Themes, Reception and Influence. Within these parts, key topics are addressed, including Descartes's life and works, Platonism, Scholasticism, Stoicism, skepticism, atomism, meditation, method, the self, God, will, and freedom, mind and body, biology and medicine, causation, mathematics, the natural sciences, philosophy of science, ethics, and the origins of idealism. Descartes's reception and legacy within science and philosophy from the seventeenth century to our days, including current analytic and continental traditions as well as within the broader contemporary culture, also receive sustained attention. Descartes's work is central to all areas of philosophy, including epistemology, metaphysics, philosophy of mind, philosophy of science, and ethics. As such, *The Cartesian Mind* is essential reading and an indispensable tool for all students and researchers in the discipline.

The Search for Certainty Frank J.

Swetz,2012-01-01 Self contained and authoritative this history of mathematics is suited to those with no math background Its absorbing entertaining essays focus on the era from 1800 to 2000 Contributors include Henri Poincaré Judith V Grabiner and H S M Coxeter who discuss topics ranging from logic and infinity to Fermat s Last Theorem **Elements of Real Analysis**

Charles G. Denlinger,2010-05-08 Elementary Real Analysis is a core course in nearly all mathematics departments throughout the world It enables students to develop a deep understanding of the key concepts of calculus from a mature perspective Elements of Real Analysis is a student friendly guide to learning all the important ideas of elementary real analysis based on the author s many years of experience teaching the subject to typical undergraduate mathematics majors It avoids the compact style of professional mathematics writing in favor of a style that feels more comfortable to students encountering the subject for the first time It presents topics in ways that are most easily understood yet does not sacrifice rigor or coverage In using this book students discover that real analysis is completely deducible from the axioms of the real number system They learn the powerful techniques of limits of sequences as the primary entry to the concepts of analysis and see the ubiquitous role sequences play in virtually all later topics They become comfortable with topological ideas and see how these concepts help unify the subject Students encounter many interesting examples including pathological ones that motivate the subject and help fix the concepts They develop a unified understanding of limits continuity differentiability Riemann integrability and infinite series of numbers and functions Student friendly style of exposition Comprehensive coverage of key material Chapters and sections presented in a natural and logical sequence Flexible format allows instructors to tailor the text to fit their course needs Generous exercises graded from routine to more difficult An ideal text for undergraduate and graduate level courses in Elementary Real Analysis which is an essential part of the preparation of every math teacher particularly those going on to teach Calculus 2011 739 pages **Elements of Real Analysis** Charles

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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

From Dedekind to Gödel Jaakko Hintikka, 2013-03-09 Discussions of the foundations of mathematics and their history are frequently restricted to logical issues in a narrow sense or else to traditional problems of analytic philosophy From Dedekind to Gödel Essays on the Development of the Foundations of Mathematics illustrates the much greater variety of the actual developments in the foundations during the period covered The viewpoints that serve this purpose included the foundational ideas of working mathematicians such as Kronecker Dedekind Borel and the early Hilbert and the development of notions like model and modelling arbitrary function completeness and non Archimedean structures The philosophers discussed include not only the household names in logic but also Husserl Wittgenstein and Ramsey Needless to say such logically oriented thinkers as Frege Russell and Gödel are not entirely neglected either Audience Everybody interested in the philosophy and or history of mathematics will find this book interesting giving frequently novel insights *History and Philosophy of Modern Mathematics* William Aspray, Philip Kitcher, 1988 History and Philosophy of Modern Mathematics was first published in 1988 Minnesota Archive Editions uses digital technology to make long unavailable books once again accessible and are published unaltered from the original University of Minnesota Press editions The fourteen essays in this volume build on the pioneering effort of Garrett Birkhoff professor of mathematics at Harvard University who in 1974 organized a conference of mathematicians and historians of modern mathematics to examine how the two disciplines approach the history of mathematics In History and Philosophy of Modern Mathematics William Aspray and Philip Kitcher bring together distinguished scholars from mathematics history and philosophy to assess the current state of the field Their essays which grow out of a 1985 conference at the University of Minnesota develop the basic premise that mathematical thought needs to be studied from an interdisciplinary perspective The opening essays study issues arising within logic and the foundations of mathematics a traditional area of interest to historians and philosophers The second section examines issues in the history of mathematics within the framework of established historical periods and questions Next come case studies that illustrate the power of an interdisciplinary approach to the study of mathematics The collection closes with a look at mathematics from a sociohistorical perspective including the way institutions affect what constitutes mathematical knowledge

In Mendel's Mirror Philip Kitcher, 2003-03-27 Philip Kitcher is one of the leading figures in the philosophy of science today Here he collects for the first time many of his published articles on the philosophy of biology spanning from the mid 1980 s to the present The book's title refers to Gregor Mendel an Augustinian monk who was one of the first scientists to develop a theory of heredity Mendel's work has been deeply influential to our understanding of our selves and our world just

as the study of genetics today will have a profound and long term impact on future scientific research Kitcher s articles cover a broad range of topics with similar philosophical and social significance sociobiology evolutionary psychology species race altruism genetic determinism and the rebirth of creationism in Intelligent Design Kitcher s work on the intersection of biology and the philosophy of science is both unprecedented and wide ranging and will appeal not only to philosophers of science but to scholars and students across disciplines

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