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# Fermat's Last Theorem

Unlocking  
the Secret of  
an Ancient  
Mathematical  
Problem

Amir D. Aczel

# Fermats Last Theorem Unlocking The Secret Of An Ancient Mathematical Problem

**Amir Aczel**



## **Fermat's Last Theorem Unlocking The Secret Of An Ancient Mathematical Problem:**

**Fermat's Last Theorem** Amir D. Aczel, 1997 Around 1637 the French mathematician Pierre de Fermat wrote that he had found a way to prove a seemingly simple statement while many square numbers can be broken down into the sum of two other squares for example  $25 = 5^2 = 3^2 + 4^2$  the same can never be done for cubes or any higher powers This book provides an account of how Fermat's solution was lost the consequent struggle by mathematicians to solve this scientific mystery and how the solution was finally found in the 1990s *An Introduction to Mathematical Reasoning* Peter J. Eccles, 2013-06-26 This book eases students into the rigors of university mathematics The emphasis is on understanding and constructing proofs and writing clear mathematics The author achieves this by exploring set theory combinatorics and number theory topics that include many fundamental ideas and may not be a part of a young mathematician's toolkit This material illustrates how familiar ideas can be formulated rigorously provides examples demonstrating a wide range of basic methods of proof and includes some of the all time great classic proofs The book presents mathematics as a continually developing subject Material meeting the needs of readers from a wide range of backgrounds is included The over 250 problems include questions to interest and challenge the most able student but also plenty of routine exercises to help familiarize the reader with the basic ideas *The Equation that Couldn't Be Solved* Mario Livio, 2005-09-19 What do Bach's compositions Rubik's Cube the way we choose our mates and the physics of subatomic particles have in common All are governed by the laws of symmetry which elegantly unify scientific and artistic principles Yet the mathematical language of symmetry known as group theory did not emerge from the study of symmetry at all but from an equation that couldn't be solved For thousands of years mathematicians solved progressively more difficult algebraic equations until they encountered the quintic equation which resisted solution for three centuries Working independently two great prodigies ultimately proved that the quintic cannot be solved by a simple formula These geniuses a Norwegian named Niels Henrik Abel and a romantic Frenchman named variste Galois both died tragically young Their incredible labor however produced the origins of group theory The first extensive popular account of the mathematics of symmetry and order The Equation That Couldn't Be Solved is told not through abstract formulas but in a beautifully written and dramatic account of the lives and work of some of the greatest and most intriguing mathematicians in history [Excursions in the History of Mathematics](#) Israel Kleiner, 2012-02-02 This book comprises five parts The first three contain ten historical essays on important topics number theory calculus analysis and proof respectively Part four deals with several historically oriented courses and Part five provides biographies of five mathematicians who played major roles in the historical events described in the first four parts of the work Excursions in the History of Mathematics was written with several goals in mind to arouse mathematics teachers interest in the history of their subject to encourage mathematics teachers with at least some knowledge of the history of mathematics to offer courses with a strong historical component and to provide an historical

perspective on a number of basic topics taught in mathematics courses      **A Mathematical Odyssey** Steven G.

Krantz, Harold R. Parks, 2014-05-10 Mathematics is a poem It is a lucid sensual precise exposition of beautiful ideas directed to specific goals It is worthwhile to have as broad a cross section of mankind as possible be conversant with what goes on in mathematics Just as everyone knows that the Internet is a powerful and important tool for communication so everyone should know that the Poincaré conjecture gives us important information about the shape of our universe Just as every responsible citizen realizes that the mass production automobile was pioneered by Henry Ford so everyone should know that the P NP problem has implications for security and data manipulation that will affect everyone This book endeavors to tell the story of the modern impact of mathematics of its trials and triumphs and insights in language that can be appreciated by a broad audience It endeavors to show what mathematics means for our lives how it impacts all of us and what new thoughts it should cause us to entertain It introduces new vistas of mathematical ideas and shares the excitement of new ideas freshly minted It discusses the significance and impact of these ideas and gives them meaning that will travel well and cause people to reconsider their place in the universe Mathematics is one of mankind's oldest disciplines Along with philosophy it has shaped the very modus of human thought And it continues to do so To be unaware of modern mathematics is to miss out on a large slice of life It is to be left out of essential modern developments We want to address this point and do something about it This is a book to make mathematics exciting for people of all interests and all walks of life Mathematics is exhilarating it is ennobling it is uplifting and it is fascinating We want to show people this part of our world and to get them to travel new paths      **Elementary Number Theory** Gareth A. Jones, Josephine M. Jones, 2012-12-06 Our intention in writing this book is

to give an elementary introduction to number theory which does not demand a great deal of mathematical background or maturity from the reader and which can be read and understood with no extra assistance Our first three chapters are based almost entirely on A level mathematics while the next five require little else beyond some elementary group theory It is only in the last three chapters where we treat more advanced topics including recent developments that we require greater mathematical background here we use some basic ideas which students would expect to meet in the first year or so of a typical undergraduate course in mathematics Throughout the book we have attempted to explain our arguments as fully and as clearly as possible with plenty of worked examples and with outline solutions for all the exercises There are several good reasons for choosing number theory as a subject It has a long and interesting history ranging from the earliest recorded times to the present day see Chapter 11 for instance on Fermat's Last Theorem and its problems have attracted many of the greatest mathematicians consequently the study of number theory is an excellent introduction to the development and achievements of mathematics and indeed some of its failures In particular the explicit nature of many of its problems concerning basic properties of integers makes number theory a particularly suitable subject in which to present modern mathematics in elementary terms      Foundations of Mathematical and Computational Economics Kamran

Dadkhah,2011-01-11 This is a book on the basics of mathematics and computation and their uses in economics for modern day students and practitioners The reader is introduced to the basics of numerical analysis as well as the use of computer programs such as Matlab and Excel in carrying out involved computations Sections are devoted to the use of Maple in mathematical analysis Examples drawn from recent contributions to economic theory and econometrics as well as a variety of end of chapter exercises help to illustrate and apply the presented concepts

**Poetic Logic and the Origins of the Mathematical Imagination** Marcel Danesi,2023-09-02 This book treats eighteenth century Italian philosopher Giambattista Vico s theory of poetic logic for the first time as the originating force in mathematics transforming instinctive counting and spatial perception into poetic metaphorical symbolism that dovetails with the origin of language It looks at current work on mathematical cognition from Lakoff and N ez to Butterworth Dehaene and beyond matching it against the poetic logic paradigm In a sense it continues from where Kasner and Newman left off connecting contemporary research on the mathematical mind to the idea that the products of early mathematics were virtually identical to the first forms of poetic language As such this book informs the current research on mathematical cognition from a different angle by looking back at a still relatively unknown philosopher within mathematics The aim of this volume is to look broadly at what constitutes the mathematical mind through the Vichian lens of poetic logic Vico was among the first to suggest that the essential nature of mind could be unraveled indirectly by reconstructing the sources of its modifications his term for creations that is by examining the creation and function of symbols words and all the other uniquely human artifacts including mathematics the mind has allowed humans to establish the world of civil society Vico s term for culture and civilization The book is of interest to cognitive scientists working on math cognition It presents the theory of poetic logic as Vico articulated it in his book *The New Science* examining its main premises and then applying it to an interpretation of the ongoing work in math cognition It will also be of interest to the general public since it presents a history of early mathematics through the lens of an idea that has borne fruit in understanding the origin of language and symbols more broadly

**Mathematical Reasoning** Raymond Nickerson,2011-02-25 The development of mathematical competence both by humans as a species over millennia and by individuals over their lifetimes is a fascinating aspect of human cognition This book explores when and why the rudiments of mathematical capability first appeared among human beings what its fundamental concepts are and how and why it has grown into the richly branching complex of specialties that it is today It discusses whether the truths of mathematics are discoveries or inventions and what prompts the emergence of concepts that appear to be descriptive of nothing in human experience Also covered is the role of esthetics in mathematics What exactly are mathematicians seeing when they describe a mathematical entity as beautiful There is discussion of whether mathematical disability is distinguishable from a general cognitive deficit and whether the potential for mathematical reasoning is best developed through instruction This volume is unique in the vast range of psychological questions it covers as revealed in the work habits and products of numerous

mathematicians It provides fascinating reading for researchers and students with an interest in cognition in general and mathematical cognition in particular Instructors of mathematics will also find the book s insights illuminating *Classic Problems of Probability* Prakash Gorroochurn, 2016-05-02 Winner of the 2012 PROSE Award for Mathematics from The American Publishers Awards for Professional and Scholarly Excellence A great book one that I will certainly add to my personal library Paul J Nahin Professor Emeritus of Electrical Engineering University of New Hampshire *Classic Problems of Probability* presents a lively account of the most intriguing aspects of statistics The book features a large collection of more than thirty classic probability problems which have been carefully selected for their interesting history the way they have shaped the field and their counterintuitive nature From Cardano s 1564 Games of Chance to Jacob Bernoulli s 1713 Golden Theorem to Parrondo s 1996 Perplexing Paradox the book clearly outlines the puzzles and problems of probability interweaving the discussion with rich historical detail and the story of how the mathematicians involved arrived at their solutions Each problem is given an in depth treatment including detailed and rigorous mathematical proofs as needed Some of the fascinating topics discussed by the author include Buffon s Needle problem and its ingenious treatment by Joseph Barbier culminating into a discussion of invariance Various paradoxes raised by Joseph Bertrand *Classic problems in decision theory* including Pascal s Wager Kraitichik s Neckties and Newcomb s problem The Bayesian paradigm and various philosophies of probability Coverage of both elementary and more complex problems including the Chevalier de M r problems Fisher and the lady testing tea the birthday problem and its various extensions and the Borel Kolmogorov paradox *Classic Problems of Probability* is an eye opening one of a kind reference for researchers and professionals interested in the history of probability and the varied problem solving strategies employed throughout the ages The book also serves as an insightful supplement for courses on mathematical probability and introductory probability and statistics at the undergraduate level *Descartes's Secret Notebook* Amir D. Aczel, 2006-10-10 Ren Descartes 1596 1650 is one of the towering and central figures in Western philosophy and mathematics His apothegm Cogito ergo sum marked the birth of the mind body problem while his creation of so called Cartesian coordinates have made our physical and intellectual conquest of physical space possible But Descartes had a mysterious and mystical side as well Almost certainly a member of the occult brotherhood of the Rosicrucians he kept a secret notebook now lost most of which was written in code After Descartes s death Gottfried Leibniz inventor of calculus and one of the greatest mathematicians in history moved to Paris in search of this notebook and eventually found it in the possession of Claude Clerselier a friend of Descartes Leibniz called on Clerselier and was allowed to copy only a couple of pages which though written in code he amazingly deciphered there on the spot Leibniz s hastily scribbled notes are all we have today of Descartes s notebook which has disappeared Why did Descartes keep a secret notebook and what were its contents The answers to these questions lead Amir Aczel and the reader on an exciting swashbuckling journey and offer a fascinating look at one of the great figures of Western culture Creators of

Mathematical and Computational Sciences Ravi P Agarwal, Syamal K Sen, 2014-11-11 The book records the essential discoveries of mathematical and computational scientists in chronological order following the birth of ideas on the basis of prior ideas ad infinitum The authors document the winding path of mathematical scholarship throughout history and most importantly the thought process of each individual that resulted in the mastery of their subject The book implicitly addresses the nature and character of every scientist as one tries to understand their visible actions in both adverse and congenial environments The authors hope that this will enable the reader to understand their mode of thinking and perhaps even to emulate their virtues in life

The Jesuit and the Skull Amir Aczel, 2008-11-04 From the New York Times bestselling author of Fermat's Last Theorem an extraordinary story Philadelphia Inquirer of discovery evolution science and faith In 1929 French Jesuit priest Pierre Teilhard de Chardin was a part of a group of scientists that uncovered a skull that became known as Peking Man a key evolutionary link that left Teilhard torn between science and his ancient faith and would leave him ostracized by his beloved Catholic Church His struggle is at the heart of The Jesuit and the Skull which takes readers across continents and cultures in a fascinating exploration of one of the twentieth century's most important discoveries and one of the world's most provocative pieces of evidence in the roiling debate between creationism and evolution

**The Encyclopedia of Science and Technology** James Trefil, 2001-08-24 Edited by acclaimed science writer and physicist James Trefil the Encyclopedia's 1000 entries combine in depth coverage with a vivid graphic format to bring every facet of science technology and medicine into stunning focus From absolute zero to the Mesozoic era to semiconductors to the twin paradox Trefil and his co authors have an uncanny ability to convey how the universe works and to show readers how to apply that knowledge to everyday problems

First Steps in Number Theory S. Shirali, 2001-07

**Bernard Lonergan** Pierrot Lambert, Philip McShane, 2013-10-15 Recounts the startling reach of Bernard Lonergan 1904-1984 in areas as diverse as pragmatic self knowledge mathematical logic and metalogic economics and systematic theology The final chapters highlight the importance of physics in his magnum opus Insight as well as his breakthrough identification of a practical theory of history

**The Future: Core Precepts in Supramolecular Method and Nanochemistry** Philip McShane, 2019-10-12 The book is an invitation to a chemical revolution one that lifts us towards the positive Anthropocene leaving behind the sick killing and dying days of the negative Anthropocene so neatly identified in 1940 by Charlie Chaplin at the conclusion of The Great Dictator Greed has poisoned men's souls has barricaded the world with hate has goose stepped us into misery and bloodshed We have developed speed but we have shut ourselves in Machinery that gives abundance has left us in want For those familiar with Lonergan's book Method in Theology The Future aims at a new creative reading The author's central message is to focus on theology ASAFact to come to our senses and ASsemble our AFfirmed ACTing to change history Assembly includes self assembly an assembly of a piece of a lonely cosmic chemistry a supermolecule whose reality in history is weaved round a complex W enzyme

The Literary Review, 1997

**Numbers: A Very Short Introduction** Peter M.

Higgins, 2011-02-24 In this Very Short Introduction Peter M Higgins presents an overview of the number types featured in modern science and mathematics Providing a non technical account he explores the evolution of the modern number system examines the fascinating role of primes and explains their role in contemporary cryptography *An Invitation to Modern Number Theory* Steven J. Miller, Ramin Takloo-Bighash, 2020-07-21 In a manner accessible to beginning undergraduates *An Invitation to Modern Number Theory* introduces many of the central problems conjectures results and techniques of the field such as the Riemann Hypothesis Roth's Theorem the Circle Method and Random Matrix Theory Showing how experiments are used to test conjectures and prove theorems the book allows students to do original work on such problems often using little more than calculus though there are numerous remarks for those with deeper backgrounds It shows students what number theory theorems are used for and what led to them and suggests problems for further research Steven Miller and Ramin Takloo Bighash introduce the problems and the computational skills required to numerically investigate them providing background material from probability to statistics to Fourier analysis whenever necessary They guide students through a variety of problems ranging from basic number theory cryptography and Goldbach's Problem to the algebraic structures of numbers and continued fractions showing connections between these subjects and encouraging students to study them further In addition this is the first undergraduate book to explore Random Matrix Theory which has recently become a powerful tool for predicting answers in number theory Providing exercises references to the background literature and Web links to previous student research projects *An Invitation to Modern Number Theory* can be used to teach a research seminar or a lecture class



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