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Uncle Petros and Goldbach's Conjecture

Apostolos Doxiadis

Uncle Petros And Goldbachs Conjecture

Clifford A. Pickover



Uncle Petros And Goldbachs Conjecture:

Uncle Petros and Goldbach's Conjecture Apostolos Doxiadis, 2001-02-03 In the tradition of Fermat's Last Theorem and Einstein's Dreams a novel about mathematical obsession Petros Papachristos devotes the early part of his life trying to prove one of the greatest mathematical challenges of all time Goldbach's Conjecture the deceptively simple claim that every even number greater than two is the sum of two primes Against a tableau of famous historical figures among them G H Hardy the self taught Indian genius Srinivasa Ramanujan and a young Kurt Godel Petros works furiously to prove the notoriously difficult conjecture Decades later his ambitious young nephew drives the defeated mathematician back into the hunt to prove Goldbach's Conjecture but at the cost of the old man's sanity and perhaps even his life **Uncle Petros and**

Goldbach's Conjecture Apostolos K. Doxiadis, 2000-02 Uncle Petros and Goldbach's Conjecture Apóstolos K.

Doxiádis, 2000 Onkel Petros nev fort ller k rligt den bitters de historie om onkelens livslange passionerede arbejde med at f re bevis for matematikeren Goldbachs formodning at ethvert lige tal er summen af to primtal *Uncle Petros/Goldbachs*

Conjecture P Apostolos K. Doxiadis, 2000-03 Professor Stewart's Cabinet of Mathematical Curiosities Ian

Stewart, 2010-09-03 School maths is not the interesting part The real fun is elsewhere Like a magpie Ian Stewart has collected the most enlightening entertaining and vexing curiosities of maths over the years Now the private collection is displayed in his cabinet There are some hidden gems of logic geometry and probability like how to extract a cherry from a cocktail glass harder than you think a pop up dodecahedron the real reason why you can't divide anything by zero and some tips for making money by proving the obvious Scattered among these are keys to unlocking the mysteries of Fermat's last theorem the Poincaré Conjecture chaos theory and the P NP problem for which a million dollar prize is on offer There are beguiling secrets about familiar names like Pythagoras or prime numbers as well as anecdotes about great mathematicians Pull out the drawers of the Professor's cabinet and who knows what could happen *Goldbach's Problem* Michael Th.

Rassias, 2017-06-25 Important results surrounding the proof of Goldbach's ternary conjecture are presented in this book Beginning with an historical perspective along with an overview of essential lemmas and theorems this monograph moves on to a detailed proof of Vinogradov's theorem The principles of the Hardy Littlewood circle method are outlined and applied to Goldbach's ternary conjecture New results due to H Maier and the author on Vinogradov's theorem are proved under the assumption of the Riemann hypothesis The final chapter discusses an approach to Goldbach's conjecture through theorems by L G Schnirelmann This book concludes with an Appendix featuring a sketch of H Helfgott's proof of Goldbach's ternary conjecture The Appendix also presents some biographical remarks of mathematicians whose research has played a seminal role on the Goldbach ternary problem The author's step by step approach makes this book accessible to those that have mastered classical number theory and fundamental notions of mathematical analysis This book will be particularly useful to graduate students and mathematicians in analytic number theory approximation theory as well as to researchers working on

Goldbach's problem **Number Theory from an Analytic Point of View** Badi H. G. G., 2004 **The Math Book** Clifford A. Pickover, 2011-09-27 Math's infinite mysteries and beauty unfold in this follow up to the best selling The Science Book Beginning millions of years ago with ancient odometers and moving through time to our modern day quest for new dimensions it covers 250 milestones in mathematical history Among the numerous delights readers will learn about as they dip into this inviting anthology cicada generated prime numbers magic squares from centuries ago the discovery of pi and calculus and the butterfly effect Each topic gets a lavishly illustrated spread with stunning color art along with formulas and concepts fascinating facts about scientists lives and real world applications of the theorems Elementary Number Theory with Applications Thomas Koshy, 2007-05-08 This second edition updates the well regarded 2001 publication with new short sections on topics like Catalan numbers and their relationship to Pascal's triangle and Mersenne numbers Pollard rho factorization method Hoggatt Hensell identity Koshy has added a new chapter on continued fractions The unique features of the first edition like news of recent discoveries biographical sketches of mathematicians and applications like the use of congruence in scheduling of a round robin tournament are being refreshed with current information More challenging exercises are included both in the textbook and in the instructor's manual Elementary Number Theory with Applications 2e is ideally suited for undergraduate students and is especially appropriate for prospective and in service math teachers at the high school and middle school levels Loaded with pedagogical features including fully worked examples graded exercises chapter summaries and computer exercises Covers crucial applications of theory like computer security ISBNs ZIP codes and UPC bar codes Biographical sketches lay out the history of mathematics emphasizing its roots in India and the Middle East

Number Theory John J. Watkins, 2013-12-26 An introductory textbook with a unique historical approach to teaching number theory The natural numbers have been studied for thousands of years yet most undergraduate textbooks present number theory as a long list of theorems with little mention of how these results were discovered or why they are important This book emphasizes the historical development of number theory describing methods theorems and proofs in the contexts in which they originated and providing an accessible introduction to one of the most fascinating subjects in mathematics Written in an informal style by an award winning teacher Number Theory covers prime numbers Fibonacci numbers and a host of other essential topics in number theory while also telling the stories of the great mathematicians behind these developments including Euclid Carl Friedrich Gauss and Sophie Germain This one of a kind introductory textbook features an extensive set of problems that enable students to actively reinforce and extend their understanding of the material as well as fully worked solutions for many of these problems It also includes helpful hints for when students are unsure of how to get started on a given problem Uses a unique historical approach to teaching number theory Features numerous problems helpful hints and fully worked solutions Discusses fun topics like Pythagorean tuning in music Sudoku puzzles and arithmetic progressions of primes Includes an introduction to Sage an easy to learn yet powerful open source mathematics software

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Is God a Mathematician? Mario Livio, 2011-02-22 Bestselling author and astrophysicist Mario Livio examines the lives and theories of history's greatest mathematicians to ask how if mathematics is an abstract construction of the human mind it can so perfectly explain the physical world Nobel Laureate Eugene Wigner once wondered about the unreasonable effectiveness of mathematics in the formulation of the laws of nature Is God a Mathematician investigates why mathematics is as powerful as it is From ancient times to the present scientists and philosophers have marveled at how such a seemingly abstract discipline could so perfectly explain the natural world More than that mathematics has often made predictions for example about subatomic particles or cosmic phenomena that were unknown at the time but later were proven to be true Is mathematics ultimately invented or discovered If as Einstein insisted mathematics is a product of human thought that is independent of experience how can it so accurately describe and even predict the world around us Physicist and author Mario Livio brilliantly explores mathematical ideas from Pythagoras to the present day as he shows us how intriguing questions and ingenious answers have led to ever deeper insights into our world This fascinating book will interest anyone curious about the human mind the scientific world and the relationship between them

More Fallacies, Flaws & Flimflam Edward J. Barbeau, 2013-10-16 More Fallacies Flaws and Flimflam is the second volume of selections drawn mostly from the College Mathematics Journal column Fallacies Flaws and Flimflam from 2000 through 2008 The MAA published the first collection Mathematical Flaws Fallacies and Flimflam in 2000 As in the first volume More Fallacies Flaws and Flimflam contains items ranging from howlers outlandish procedures that nonetheless lead to a correct answer to deep or subtle errors often made by strong students Although some are provided for entertainment others challenge the reader to determine exactly where things go wrong Items are sorted by subject matter Elementary teachers will find chapter 1 of most use while middle and high school teachers will find chapters 1 2 3 7 and 8 applicable to their levels College instructors can delve for material in every part of the book There are frequent references to the College Mathematics Journal these are denoted by CMJ

[Primality Testing for Beginners](#) Lasse Rempe-Gillen, Rebecca Waldecker, 2013-12-11 How can you tell whether a number is prime What if the number has hundreds or thousands of digits This question may seem abstract or irrelevant but in fact primality tests are performed every time we make a secure online transaction In 2002 Agrawal Kayal and Saxena answered a long standing open question in this context by presenting a deterministic test the AKS algorithm with polynomial running time that checks whether a number is prime or not What is more their methods are essentially elementary providing us with a unique opportunity to give a complete explanation of a current mathematical breakthrough to a wide audience Rempe Gillen and Waldecker introduce the aspects of number theory algorithm theory and cryptography that are relevant for the AKS algorithm and explain in detail why and how this test works This book is specifically designed to make the reader familiar with the background that is necessary to appreciate the AKS algorithm and begins at a level that is

suitable for secondary school students teachers and interested amateurs Throughout the book the reader becomes involved in the topic by means of numerous exercises

Do I Count? Gunter M. Ziegler, 2013-07-22 The subject of mathematics is not something distant strange and abstract that you can only learn about and often dislike in school It is in everyday situations such as housekeeping communications traffic and weather reports Taking you on a trip into the world of mathematics *Do I Count* Stories from Mathematics describes in a clear and captivating way the people behind the numbers and the places where mathematics is made Written by top scientist and engaging storyteller Gunter M Ziegler and translated by Thomas von Foerster the book presents mathematics and mathematicians in a manner that you have not previously encountered It guides you on a scenic tour through the field pointing out which beds were useful in constructing which theorems and which notebooks list the prizes for solving particular problems Forgoing esoteric areas the text relates mathematics to celebrities history travel politics science and technology weather clever puzzles and the future Can bees count Is 13 bad luck Are there equations for everything What's the real practical value of the Pythagorean Theorem Are there Sudoku puzzles with fewer than 17 entries and just one solution Where and how do mathematicians work Who invented proofs and why do we need them Why is there no Nobel Prize for mathematics What kind of life did Paul Erdős lead Find out the answers to these and other questions in this entertaining book of stories You'll see that everyone counts but no computation is needed

Between Logic and Reality Majda Trobok, Nenad Mišćević, Berislav Žarnić, 2011-11-23 Is reality logical and is logic real What is the origin of logical intuitions What is the role of logical structures in the operations of an intelligent mind and in communication Is the function of logical structure regulative or constitutive or both in concept formation This volume provides analyses of the logic reality relationship from different approaches and perspectives The point of convergence lies in the exploration of the connections between reality social natural or ideal and logical structures employed in describing or discovering it Moreover the book connects logical theory with more concrete issues of rationality normativity and understanding thus pointing to a wide range of potential applications The papers collected in this volume address cutting edge topics in contemporary discussions amongst specialists Some essays focus on the role of indispensability considerations in the justification of logical competence and the wide range of challenges within the philosophy of mathematics Others present advances in dynamic logical analysis such as extension of game semantics to non logical part of vocabulary and development of models of contractive speech act

Prime Obsession John Derbyshire, 2003-04-15 In August 1859 Bernhard Riemann a little known 32 year old mathematician presented a paper to the Berlin Academy titled On the Number of Prime Numbers Less Than a Given Quantity In the middle of that paper Riemann made an incidental remark a guess a hypothesis What he tossed out to the assembled mathematicians that day has proven to be almost cruelly compelling to countless scholars in the ensuing years Today after 150 years of careful research and exhaustive study the question remains Is the hypothesis true or false Riemann's basic inquiry the primary topic of his paper

concerned a straightforward but nevertheless important matter of arithmetic defining a precise formula to track and identify the occurrence of prime numbers But it is that incidental remark the Riemann Hypothesis that is the truly astonishing legacy of his 1859 paper Because Riemann was able to see beyond the pattern of the primes to discern traces of something mysterious and mathematically elegant shrouded in the shadows subtle variations in the distribution of those prime numbers Brilliant for its clarity astounding for its potential consequences the Hypothesis took on enormous importance in mathematics Indeed the successful solution to this puzzle would herald a revolution in prime number theory Proving or disproving it became the greatest challenge of the age It has become clear that the Riemann Hypothesis whose resolution seems to hang tantalizingly just beyond our grasp holds the key to a variety of scientific and mathematical investigations The making and breaking of modern codes which depend on the properties of the prime numbers have roots in the Hypothesis In a series of extraordinary developments during the 1970s it emerged that even the physics of the atomic nucleus is connected in ways not yet fully understood to this strange conundrum Hunting down the solution to the Riemann Hypothesis has become an obsession for many the veritable great white whale of mathematical research Yet despite determined efforts by generations of mathematicians the Riemann Hypothesis defies resolution Alternating passages of extraordinarily lucid mathematical exposition with chapters of elegantly composed biography and history *Prime Obsession* is a fascinating and fluent account of an epic mathematical mystery that continues to challenge and excite the world Posited a century and a half ago the Riemann Hypothesis is an intellectual feast for the cognoscenti and the curious alike Not just a story of numbers and calculations *Prime Obsession* is the engrossing tale of a relentless hunt for an elusive proof and those who have been consumed by it

Secrets of Creation Matthew Watkins, 2015-03-27 The *Mystery of the Prime Numbers* uses an innovative visual approach to communicate some surprisingly advanced mathematical ideas without any need for formulas or equations The issue of prime numbers acts as a gateway into some truly strange philosophical territory whose relevance extends well beyond mathematics *Symmetry and the Monster* Mark Ronan, 2007-07-26 In an exciting fast paced historical narrative ranging across two centuries Ronan takes readers on an exhilarating tour of this final mathematical quest to understand symmetry The Poincare Conjecture Donal O'Shea, 2009-05-26 Henri Poincaré was one of the greatest mathematicians of the late nineteenth and early twentieth century He revolutionized the field of topology which studies properties of geometric configurations that are unchanged by stretching or twisting The Poincaré conjecture lies at the heart of modern geometry and topology and even pertains to the possible shape of the universe The conjecture states that there is only one shape possible for a finite universe in which every loop can be contracted to a single point Poincaré's conjecture is one of the seven millennium problems that bring a one million dollar award for a solution Grigory Perelman a Russian mathematician has offered a proof that is likely to win the Fields Medal the mathematical equivalent of a Nobel prize in August 2006 He also will almost certainly share a Clay Institute millennium award In telling the vibrant story of The Poincaré Conjecture Donal O'Shea

makes accessible to general readers for the first time the meaning of the conjecture and brings alive the field of mathematics and the achievements of generations of mathematicians whose work have led to Perelman s proof of this famous conjecture

A Factotum in the Book Trade Marius Kociejowski, 2022-04-26 The bookshop is and will always be the soul of the trade What happens there does not happen elsewhere The multifariousness of human nature is more on show there than anywhere else and I think it s because of books what they are what they release in ourselves and what they become when we make them magnets to our desires A memoir of a life in the antiquarian book trade A Factotum in the Book Trade is a journey between the shelves and then behind the counter into the overstuffed basement and up the spine stacked attic stairs of your favourite neighbourhood bookshop From his childhood in rural Ontario where at the village jumble sale he bought poetry volumes for their pebbled leather covers alone to his all but accidental entrance into the trade in London and the career it turned into poet and travel writer Marius Kociejowski recounts his life among the buyers sellers customers and literary nobility the characters fictional and not who populate these places we all love Cataloging their passions and pleasures oddities and obsessions A Factotum in the Book Trade is a journey through their lives and a story of the serendipities and collisions of fate the mundane happenings and indelible encounters the friendships feuds losses and elations that characterize the business of books and inevitably make up an unforgettable life

Uncle Petros And Goldbachs Conjecture Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the power of words has be evident than ever. They have the capability to inspire, provoke, and ignite change. Such is the essence of the book **Uncle Petros And Goldbachs Conjecture**, a literary masterpiece that delves deep to the significance of words and their affect our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall effect on readers.

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