

# Uncle Petros And Goldbachs Conjecture

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uncle petros is a family joke an ageing recluse he lives alone in a suburb of athens playing chess and tending to his garden if you didn't know better you'd surely think he was one of life's failures but his young nephew suspects otherwise for uncle petros he discovers was once a celebrated mathematician brilliant and foolhardy enough to stake everything on solving a problem that had defied all attempts at proof for nearly three centuries goldbach's conjecture his quest brings him into contact with some of the century's greatest mathematicians including the indian prodigy ramanujan and the young alan turing but his struggle is lonely and single minded and by the end it has apparently destroyed his life until that is a final encounter with his nephew opens up to petros once more the deep mysterious beauty of mathematics uncle petros and goldbach's conjecture is an inspiring novel of intellectual adventure proud genius the exhilaration of pure mathematics and the rivalry and antagonism which torment those who pursue impossible goals

onkel petros nevø fortæller klærligt den bittersøde historie om onkelens livslange passionerede arbejde med at finde bevis for matematikeren goldbachs formodning at ethvert lige tal er summen af to primtal

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

this book covers 250 milestones in mathematical history beginning millions of years ago with ancient ant odometers and moving through time to our modern day quest for new dimensions

knowing that the most exciting math is not taught in school professor ian stewart has spent years filling his cabinet with intriguing mathematical games puzzles stories and factoids intended for the adventurous mind this book reveals the most exhilarating oddities from professor stewart s legendary cabinet inside you will find 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 and the real reason why you can t divide anything by zero scattered among these are keys to fermat s last theorem the poincaré conjecture chaos theory and the p np problem you ll win a million dollars if you solve it you never know what enigmas you ll find in the stewart cabinet but they re sure to be clever mind expanding and delightfully fun

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 package ideal for undergraduate mathematics majors as well as non math majors digital solutions manual available only to professors

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 supposedly describes the people behind the numbers and the places where mathematics is made written by disreputable scientist and pretentious storyteller g2nter 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 what do you think 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 erd s 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 but then again why not buy a better book

examines german mathematician bernhard riemann s hypothesis on imaginary numbers sine waves and prime numbers and attempts to unravel the mystery surrounding it

it follows that the stability and the health of human communities must be achieved by checks and balances agonists and antagonists forces and counterforces and multiple decision makers rather than by central guidance and near perfect cooperation among its members reflections on the logic of the good provides a powerful metaphysical and philosophical foundation for those who argue against the micromanagement of the individual the economy and the society what emerges from this analysis is a non relativistic ethical pluralism an entirely general invisible hand theory and a defense of the open mind the open society and the open universe book jacket

the fascinating tale of the solving of the famous enigma in the shape of space part history and part maths in the world of maths the poincare conjecture was the holy grail mathematicians laboured over decades to crack it with the lure of academic recognition and a one million dollar prize at stake finally it has been solved by a reclusive russian who when he won the fields medal refused to attend the ceremony in favour of staying at home and watching television

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