# Fermat's Last Theorem

Fermat's last theorem is a theorem first proposed by Fermat in the form of a note scribbled in the margin of his copy of the ancient Greek text *Arithmetica* by Diophantus. The scribbled note was discovered posthumously, and the original is now lost. However, a copy was preserved in a book published by Fermat's son. In the note, Fermat claimed to have discovered a proof that the Diophantine equation  $x^n + y^n = z^n$  has no integer solutions for n > 2 and  $x, y, z \neq 0$ .

The full text of Fermat's statement, written in Latin, reads "Cubum autem in duos cubos, aut quadrato-quadratum in duos quadrato-quadratos, et generaliter nullam in infinitum ultra quadratum potestatem in duos eiusdem nominis fas est dividere cuius rei demonstrationem mirabilem sane detexi. Hanc marginis exiguitas non caperet" (Nagell 1951, p. 252). In translation, "It is impossible for a cube to be the sum of two cubes, a fourth power to be the sum of two fourth powers, or in general for any number that is a power greater than the second to be the sum of two like powers. I have discovered a truly marvelous demonstration of this proposition that this margin

# **Notes On Fermats Last Theorem**

Frederick John Zeigler

#### **Notes On Fermats Last Theorem:**

Notes on Fermat's Last Theorem A. J. Van Der Poorten, 1996-02-16 This book offers the first serious treatment of Fermat's Last Theorem since Wiles's proof It is based on a series of lectures given by the author to celebrate Wiles's achievement with each chapter explaining a separate area of number theory as it pertains to Fermat's Last Theorem Together they provide a concise history of the theorem as well as a brief discussion of Wiles s proof and its implications Requiring little more than one year of university mathematics and some interest in formulas this overview provides many useful tips and cites numerous references for those who desire more mathematical detail **Notes on Fermat's Last Theorem** Frederick John Zeigler, 1988\* 13 Lectures on Fermat's Last Theorem Paulo Ribenboim, 1979-12-18 Fermat's problem also ealled Fermat's last theorem has attracted the attention of mathematicians far more than three centuries Many clever methods have been devised to attack the problem and many beautiful theories have been ereated with the aim of proving the theorem Yet despite all the attempts the question remains unanswered The topic is presented in the form of leetures where I survey the main lines of work on the problem In the first two leetures there is a very brief description of the early history as well as a selection of a few of the more representative recent results In the lectures which follow I examine in sue eession the main theories eonneeted with the problem The last two lee tu res are about analogues to Fermat's theorem Some of these lectures were actually given in a shorter version at the Institut Henri Poineare in Paris as well as at Queen s University in 1977 I endeavoured to produce a text readable by mathematicians in general and not only by specialists in number theory However due to a limitation in size I am aware that eertain points will appear sketchy Another book on Fermat's theorem now in preparation will eontain a eonsiderable amount of the teehnieal developments omitted here It will serve those who wish to learn these matters in depth and I hope it will clarify and eomplement the present volume Notes and Problems in Number Theory (Volume II) Taha Sochi, 2024-05-23 This is the second volume of my book Notes and Problems in Number Theory We focus in this volume on the type of problems that develop the basic and most essential skills which are required for dealing with number theory problems We introduced some new topics in the first chapter i e Introduction while the remaining chapters are largely dedicated to solved problems from the main topics of elementary number theory which are introduced in V1 or in the Introduction chapter of the present volume We also introduced the subject of cryptography and computing in number theory in the last two chapters So in brief the materials in this volume are largely a mix of applications to the materials of V1 and some theoretical background of new topics as well as applications to the new topics As in my previous books my topmost priority in the structure and presentation is clarity and graduality so that the readers have the best chance of understanding the content with minimum effort and with maximum enjoyment The book can be used as a text or as a reference for an introductory course on number theory and may also be used for general reading in mathematics especially by those who have the hobby of problem solving The book may also be adopted as a source of

pedagogical materials which can supplement for instance tutorial sessions e g in undergraduate courses on mathematics or computing or cryptography or related subjects **CRC Concise Encyclopedia of Mathematics** Eric W. Weisstein, 2002-12-12 Upon publication the first edition of the CRC Concise Encyclopedia of Mathematics received overwhelming accolades for its unparalleled scope readability and utility It soon took its place among the top selling books in the history of Chapman Hall CRC and its popularity continues unabated Yet also unabated has been the d **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 **Encyclopaedia of Mathematics** Michiel Hazewinkel, 2012-12-06 This is the first Supplementary volume to Kluwer's highly acclaimed Encyclopaedia of Mathematics This additional volume contains nearly 600 new entries written by experts and covers developments and topics not included in the already published 10 volume set These entries have been arranged alphabetically throughout A detailed index is included in the book This Supplementary volume enhances the existing 10 volume set Together these eleven volumes represent the most authoritative comprehensive up to date Encyclopaedia of Mathematics available Differential Equations with Applications and Historical Notes George F. Simmons, 2016-11-17 Fads are as common in mathematics as in any other human activity and it is always difficult to separate the enduring from the ephemeral in the achievements of one s own time An unfortunate effect of the predominance of fads is that if a student doesn t learn about such worthwhile topics as the wave equation Gauss s hypergeometric function the gamma function and the basic problems of the calculus of variations among others as an undergraduate then he she is unlikely to do so later The natural place for an informal acquaintance with such ideas is a leisurely introductory course on differential equations Specially designed for just such a course Differential Equations with Applications and Historical Notes takes great pleasure in the journey into the world of differential equations and their wide range of applications. The author a highly respected educator advocates a careful approach using explicit explanation to ensure students fully comprehend the subject matter With an emphasis on modeling and applications the long awaited Third Edition of this classic textbook presents a substantial new section on Gauss's bell curve and improves coverage of Fourier analysis numerical methods and linear algebra Relating the development of mathematics to human activity i e identifying why and how mathematics is used the text includes a wealth of unique examples and exercises as well as the author s distinctive historical notes throughout Provides an ideal text for a one or two semester introductory course on differential equations Emphasizes modeling and applications Presents a substantial new section on Gauss s bell curve Improves coverage of Fourier analysis numerical methods and linear algebra Relates the development of mathematics to human activity i e

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