

# Solved and Unsolved Problems in Number Theory

Daniel Shanks

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# Solved And Unsolved Problems In Number Theory

**Richard Guy**



## **Solved And Unsolved Problems In Number Theory:**

**Unsolved Problems in Number Theory** Richard Guy, R.K. Guy, 2013-06-29 To many laymen mathematicians appear to be problem solvers people who do hard sums Even inside the profession we classify ourselves as either theorists or problem solvers Mathematics is kept alive much more than by the activities of either class by the appearance of a succession of unsolved problems both from within mathematics itself and from the increasing number of disciplines where it is applied Mathematics often owes more to those who ask questions than to those who answer them The solution of a problem may stifle interest in the area around it But Fermat's Last Theorem because it is not yet a theorem has generated a great deal of good mathematics whether goodness is judged by beauty by depth or by applicability To pose good unsolved problems is a difficult art The balance between triviality and hopeless unsolvability is delicate There are many simply stated problems which experts tell us are unlikely to be solved in the next generation But we have seen the Four Color Conjecture settled even if we don't live long enough to learn the status of the Riemann and Goldbach hypotheses of twin primes or Mersenne primes or of odd perfect numbers On the other hand unsolved problems may not be unsolved at all or may be much more tractable than was at first thought

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Unsolved Problems in Number Theory Richard Guy, 2013-11-11 To many laymen mathematicians appear to be problem solvers people who do hard sums Even inside the profession we classify ourselves as either theorists or problem solvers Mathematics is kept alive much more than by the activities of either class by the appearance of a succession of unsolved problems both from within mathematics itself and from the increasing number of disciplines where it is applied Mathematics often owes more to those who ask questions than to those who answer them The solution of a problem may stifle interest in the area around it But Fermat's Last Theorem because it is not yet a theorem has generated a great deal of good mathematics whether goodness is judged by beauty by depth or by applicability To pose good unsolved problems is a difficult art The balance between triviality and hopeless unsolvability is delicate There are many simply stated problems which experts tell us are unlikely to be solved in the next generation But we have seen the Four Color Conjecture settled even if we don't live long enough to learn the status of the Riemann and Goldbach hypotheses of twin primes or Mersenne primes or of odd perfect numbers On the other hand unsolved problems may not be unsolved at all or than was at first thought

**Problem-Solving and Selected Topics in Number Theory** Michael Th. Rassias, 2010-12-02 The book provides a self-contained introduction to classical Number Theory All the proofs of the individual theorems and the solutions of the exercises are being presented step by step Some historical remarks are also presented The book will be directed to advanced undergraduate beginning graduate students as well as to students who prepare for mathematical competitions ex Mathematical Olympiads and Putnam Mathematical competition

Notes and Problems in Number Theory (Volume I) Taha Sochi, 2023-10-22 This book is the first volume of a collection of notes and solved problems about number theory Like my

previous books maximum clarity was one of the main objectives and criteria in determining the style of writing presenting and structuring the book as well as selecting its contents Modest mathematical background knowledge is required for understanding most of the contents of the book In fact the book in most parts requires no more than a college or secondary school level of general mathematics So the intended readers of the book are primarily college or A level students as well as junior undergraduate students e g in mathematics or science or engineering The book can be used as a text or as a reference for an introductory course on this subject and may also be used for general reading in mathematics 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 science

*Methods of Solving Number Theory Problems* Ellina Grigorieva, 2018-07-06 Through its engaging and unusual problems this book demonstrates methods of reasoning necessary for learning number theory Every technique is followed by problems as well as detailed hints and solutions that apply theorems immediately so readers can solve a variety of abstract problems in a systematic creative manner New solutions often require the ingenious use of earlier mathematical concepts not the memorization of formulas and facts Questions also often permit experimental numeric validation or visual interpretation to encourage the combined use of deductive and intuitive thinking The first chapter starts with simple topics like even and odd numbers divisibility and prime numbers and helps the reader to solve quite complex Olympiad type problems right away It also covers properties of the perfect amicable and figurate numbers and introduces congruence The next chapter begins with the Euclidean algorithm explores the representations of integer numbers in different bases and examines continued fractions quadratic irrationalities and the Lagrange Theorem The last section of Chapter Two is an exploration of different methods of proofs The third chapter is dedicated to solving Diophantine linear and nonlinear equations and includes different methods of solving Fermat's Pell's equations It also covers Fermat's factorization techniques and methods of solving challenging problems involving exponent and factorials Chapter Four reviews the Pythagorean triple and quadruple and emphasizes their connection with geometry trigonometry algebraic geometry and stereographic projection A special case of Waring's problem as a representation of a number by the sum of the squares or cubes of other numbers is covered as well as quadratic residuals Legendre and Jacobi symbols and interesting word problems related to the properties of numbers Appendices provide a historic overview of number theory and its main developments from the ancient cultures in Greece Babylon and Egypt to the modern day Drawing from cases collected by an accomplished female mathematician *Methods in Solving Number Theory Problems* is designed as a self study guide or supplementary textbook for a one semester course in introductory number theory It can also be used to prepare for mathematical Olympiads Elementary algebra arithmetic and some calculus knowledge are the only prerequisites Number theory gives precise proofs and theorems of an irreproachable rigor and sharpens analytical thinking which makes this book perfect for anyone looking to build their mathematical confidence

*Solved and Unsolved Problems in Number Theory* Daniel Shanks (f. 1917), 1964

Definitions, Solved and Unsolved Problems, Conjectures, and Theorems in Number Theory and Geometry Florentin Smarandache, 1999-12-01      *Solved and Unsolved Problems in Number Theory* David R. Shanks, 1978      **The Math Encyclopedia of Smarandache type Notions** Marius Coman, About the works of Florentin Smarandache have been written a lot of books he himself wrote dozens of books and articles regarding math physics literature philosophy Being a globally recognized personality in both mathematics there are countless functions and concepts that bear his name and literature it is natural that the volume of writings about his research is huge What we try to do with this encyclopedia is to gather together as much as we can both from Smarandache's mathematical work and the works of many mathematicians around the world inspired by the Smarandache notions We structured this book using numbered Definitions Theorems Conjectures Notes and Comments in order to facilitate an easier reading but also to facilitate references to a specific paragraph We divided the Bibliography in two parts Writings by Florentin Smarandache indexed by the name of books and articles and Writings on Smarandache notions indexed by the name of authors We treated in this book about 130 Smarandache type sequences about 50 Smarandache type functions and many solved or open problems of number theory We also have at the end of this book a proposal for a new Smarandache type notion id est the concept of a set of Smarandache Coman divisors of order  $k$  of a composite positive integer  $n$  with  $m$  prime factors notion that seems to have promising applications at a first glance at least in the study of absolute and relative Fermat pseudoprimes Carmichael numbers and Poulet numbers This encyclopedia is both for researchers that will have on hand a tool that will help them navigate in the universe of Smarandache type notions and for young math enthusiasts many of them will be attracted by this wonderful branch of mathematics number theory reading the works of Florentin Smarandache      *Number Theory* Krishnaswami Alladi, 2006-11-14      Unsolved Problems in Number Theory R.K. Guy, 1981-11-30 Second edition sold 2241 copies in N A and 1600 ROW New edition contains 50 percent new material      *Old and New Unsolved Problems in Plane Geometry and Number Theory* Victor Klee, Stan Wagon, 2020-07-31 Victor Klee and Stan Wagon discuss some of the unsolved problems in number theory and geometry many of which can be understood by readers with a very modest mathematical background The presentation is organized around 24 central problems many of which are accompanied by other related problems The authors place each problem in its historical and mathematical context and the discussion is at the level of undergraduate mathematics Each problem section is presented in two parts The first gives an elementary overview discussing the history and both the solved and unsolved variants of the problem The second part contains more details including a few proofs of related results a wider and deeper survey of what is known about the problem and its relatives and a large collection of references Both parts contain exercises with solutions The book is aimed at both teachers and students of mathematics who want to know more about famous unsolved problems      Reviews in Number Theory 1973-83 Richard K. Guy, 1984      Unsolved Problems in Number Theory Richard K. Guy, 1981      **Reviews in Number Theory, as Printed in Mathematical Reviews, 1940 Through 1972,**

**Volumes 1-44 Inclusive** William Judson LeVeque, 1974      THIRTY-SIX UNSOLVED PROBLEMS IN NUMBER THEORY  
 Florentin Smarandache, Partially or totally unsolved questions in number theory and geometry especially such as coloration problems elementary geometric conjectures partitions generalized periods of a number length of a generalized period arithmetic and geometric progressions are exposed      Open Questions in Mathematics Dagmar R. Henney, 1974      **1969**  
**Number Theory Institute** Donald John Lewis, 1971 This book is an outgrowth of the American Mathematical Society's Sixteenth Summer Research Institute which had as its topics algebraic number theory Diophantine problems and analytic number theory In order to survey the achievements of the decade the Institute organizing committee invited sixteen speakers to each give a series of lectures This volume includes the sixteen invited lecture series and nine seminar talks which present particularly effective surveys of specific areas These papers are addressed to a general number theory audience rather than specialists and are meant to enable a number theorist to become acquainted with important innovations in areas outside their own specialties It is hoped that this collection of papers will facilitate access to various parts of number theory and foster further development      Problem Solving in the Mathematics Curriculum Alan H. Schoenfeld, 1983

The book delves into Solved And Unsolved Problems In Number Theory. Solved And Unsolved Problems In Number Theory is a vital topic that must be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Solved And Unsolved Problems In Number Theory, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
    - Chapter 1: Introduction to Solved And Unsolved Problems In Number Theory
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    - Chapter 3: Solved And Unsolved Problems In Number Theory in Everyday Life
    - Chapter 4: Solved And Unsolved Problems In Number Theory in Specific Contexts
    - Chapter 5: Conclusion
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  4. In chapter 3, the author will examine the practical applications of Solved And Unsolved Problems In Number Theory in daily life. This chapter will showcase real-world examples of how Solved And Unsolved Problems In Number Theory can be effectively utilized in everyday scenarios.
  5. In chapter 4, the author will scrutinize the relevance of Solved And Unsolved Problems In Number Theory in specific contexts. The fourth chapter will explore how Solved And Unsolved Problems In Number Theory is applied in specialized fields, such as education, business, and technology.
  6. In chapter 5, the author will draw a conclusion about Solved And Unsolved Problems In Number Theory. This chapter will summarize the key points that have been discussed throughout the book.
- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Solved And Unsolved Problems In Number Theory.

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