Richard K. Guy

Unsolved Problems
in Number Theory

THIRD EDITION

Springer

Unsolved Problems In Number Theory 3rd Edition

Jean-Marie De Koninck,Florian Luca

Unsolved Problems In Number Theory 3rd Edition:

Unsolved Problems in Number Theory Richard Guy,2013-03-09 Mathematics is kept alive by the appearance of new unsolved problems problems posed from within mathematics itself and also from the increasing number of disciplines where mathematics is applied This book provides a steady supply of easily understood if not easily solved problems which can be considered in varying depths by mathematicians at all levels of mathematical maturity For this new edition the author has included new problems on symmetric and asymmetric primes sums of higher powers Diophantine m tuples and Conway s RATS and palindromes The author has also included a useful new feature at the end of several of the sections lists of references to OEIS Neil Sloane s Online Encyclopedia of Integer Sequences About the first Edition many talented young mathematicians will write their first papers starting out from problems found in this book Andr s S rk zi MathSciNet

Problem-Solving and Selected Topics in Number Theory Michael Th. Rassias,2010-11-16 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   A Course in Number Theory and Cryptography Neal Koblitz,2012-09-05 both Gauss and lesser mathematicians may be justified in rejoic ing that there is one science number theory at any rate and that their own whose very remoteness from ordinary human activities should keep it gentle and clean G H Hardy A Mathematician s Apology 1940 G H Hardy would have been surprised and probably displeased with the increasing interest in number theory for application to ordinary human activities such as information transmission error correcting codes and cryptography secret codes Less than a half century after Hardy wrote the words quoted above it is no longer inconceivable though it hasn t happened yet that the N S A the agency for U S government work on cryptography will demand prior review and clearance before publication of theoretical research papers on certain types of number theory In part it is the dramatic increase in computer power and sophistica tion that has influenced some of the questions being studied by number theorists giving rise to a new branch of the subject called computational number theory This book presumes almost no background in algebra or number the ory Its purpose is to introduce the reader to arithmetic topics both ancient and very modern which have been at the center of interest in applications especially in cryptography For this reason we take an algorithmic approach emphasizing estimates of the efficiency of the techniques that arise from the theory

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 dassify ouselves as either theorists or problem solvers Mathematics is kept alive much more than by the activities of either dass 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 stifte 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 <u>Unsolved Problems in Number Theory</u> Richard K. Guy,1994 *Analytic Number Theory* Jean-Marie De Koninck,Florian Luca,2023-07-31 The authors assemble a fascinating collection of topics from analytic number theory that provides an introduction to the subject with a very clear and unique focus on the anatomy of integers that is on the study of the multiplicative structure of the integers Some of the most important topics presented are the global and local behavior of arithmetic functions an extensive study of smooth numbers the Hardy Ramanujan and Landau theorems characters and the Dirichlet theorem the abc conjecture along with some of its applications and sieve methods The book concludes with a whole chapter on the index of composition of an integer One of this book s best features is the collection of problems at the end of each chapter that have been chosen carefully to reinforce the material The authors include solutions to the even numbered problems making this volume very appropriate for readers who want to test their understanding of the theory presented in the book **Unsolved Problems in Number Theory** R. K. Guy,2014-01-15 *A Pythagorean Introduction to Number Theory* Ramin Takloo-Bighash,2018-11-26 Right triangles are at the heart of this textbook s vibrant new approach to elementary number theory Inspired by the familiar Pythagorean theorem the author invites the reader to ask natural arithmetic questions about right triangles then proceeds to develop the theory needed to respond Throughout students are encouraged to engage with the material by posing questions working through exercises using technology and learning about the broader context in which ideas developed Progressing from the fundamentals of number theory through to Gauss sums and quadratic reciprocity the first part of this text presents an innovative first course in elementary number theory The advanced topics that follow such as counting lattice points and the four squares theorem offer a variety of options for extension or a higher level course the breadth and modularity of the later material is ideal for creating a senior capstone course Numerous exercises are included throughout many of which are designed for SageMath By involving students in the active process of inquiry and investigation this textbook imbues the foundations of number theory with insights into the lively mathematical process that continues to advance the field today Experience writing proofs is the only formal prerequisite for the book while a background in basic real analysis will enrich the reader s appreciation of the final chapters **CRC Concise Encyclopedia of Mathematics** Eric W. Weisstein,2002-12-12 Upon publication the first edition of the CRCConcise

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 **Elementary Number Theory and Its Applications** Kenneth H. Rosen,2000 The fourth edition of Kenneth Rosen s widely used and successful text Elementary Number Theory and Its Applications preserves the strengths of the previous editions while enhancing the book s flexibility and depth of content coverage The blending of classical theory with modern applications is a hallmark feature of the text The Fourth Edition builds on this strength with new examples additional applications and increased cryptology coverage Up to date information on the latest discoveries is included Elementary Number Theory and Its Applications provides a diverse group of exercises including basic exercises designed to help students develop skills challenging exercises and computer projects In addition to years of use and professor feedback the fourth edition of this text has been thoroughly accuracy checked to ensure the quality of the mathematical content and the exercises The American Mathematical Monthly ,1898 Includes section Recent publications *American Book Publishing Record* ,2003 **Portugaliae Mathematica** Antonio A. R. Monteiro,2009 *Crux Mathematicorum with Mathematical Mayhem* ,2006 Problem solving journal at the senior secondary and university undergraduate levels for those who practice or teach mathematics Primarily educational in purpose it also serves those who read it for professional cultural and recreational reasons **Numbers and Proofs** Reg Allenby,1997-09-26 Numbers and Proofs presents a gentle introduction to the notion of proof to give the reader an understanding of how to decipher others proofs as well as construct their own Useful methods of proof are illustrated in the context of studying problems concerning mainly numbers real rational complex and integers An indispensable guide to all students of mathematics Each proof is preceded by a discussion which is intended to show the reader the kind of thoughts they might have before any attempt proof is made Established proofs which the student is in a better position to follow then follow Presented in the author s entertaining and informal style and written to reflect the changing profile of students entering universities this book will prove essential reading for all seeking an introduction to the notion of proof as well as giving a definitive guide to the more common forms Stressing the importance of backing up truths found through experimentation with logically sound and watertight arguments it provides an ideal bridge to more complex undergraduate maths *Essentials of Elementary School Mathematics* Max D. Larsen,James L. Fejfar,1974 Essentials of Elementary School Mathematics **Transform Domain Adaptive Filtering Using a Generalized Quadratic Residue Number System** Thomas G. Johnson,1988 **Number Theory** Ram Prakash Bambah,Viswa Chander Dumir,Rajinder Jeet Hans-Gill,2000 The Indian National Science Academy on the occasion ofthe Golden Jubilee Celebration Fifty years of India s Independence decided to publish a number of monographs on the selected fields The editorial board of INS A invited us to prepare a special monograph in Number Theory In reponse to this assignment we invited several eminent Number Theorists to contribute expository research articles for this monograph on

Number Theory Al though some ofthose invited due to other preoccupations could not respond positively to our invitation we did receive fairly encouraging response from many eminent and creative number theorists throughout the world These articles are presented herewith in a logical order We are grateful to all those mathematicians who have sent us their articles We hope that this monograph will have a significant impact on further development in this subject R P Bambah v C Dumir R J Hans Gill A Centennial History of the Prime Number Theorem Tom M Apostol The Prime Number Theorem Among the thousands of discoveries made by mathematicians over the centuries some stand out as significant landmarks One of these is the prime number theorem which describes the asymptotic distribution of prime numbers It can be stated in various equivalent forms two of which are x I K X I as x 00 ogx and Pn n log n as n 00 2 In 1 K X denotes the number of primes P s x for any x O   **Computational Recreations in Mathematica** Ilan Vardi,1991 Presents some common problems in mathematics and how they can be investigated using the Mathematica computer system Problems and exercises include the calendar sequences the n Queens problems digital computing blackjack and computing pi This book is for those that would like to see how Mathematica is applied to real world mathematics   *Colloquium Mathematicum* ,2011

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