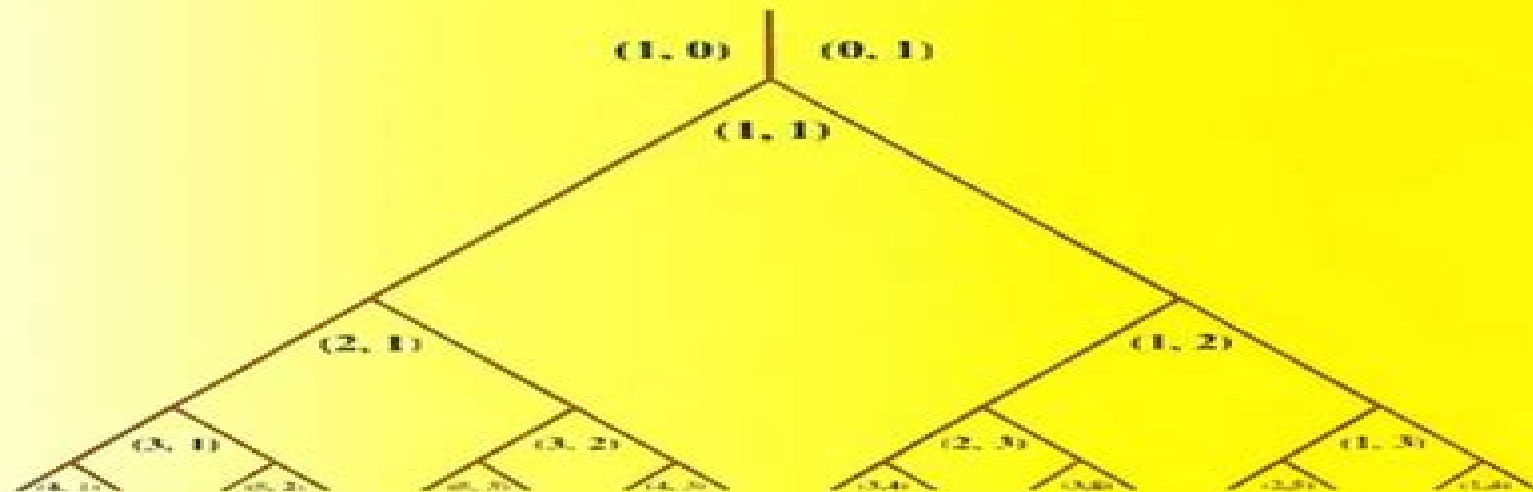


John Stillwell

# ELEMENTS OF NUMBER THEORY



Springer

# Elements Of Number Theory

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Vinogradov, 2016-01-14 A very welcome addition to books on number theory Bulletin American Mathematical Society Clear and detailed in its exposition this text can be understood by readers with no background in advanced mathematics only a small part requires a working knowledge of calculus One of the most valuable characteristics of this book is its stress on learning number theory by means of demonstrations and problems More than 200 problems and full solutions appear in the text plus 100 numerical exercises Some of these exercises deal with estimation of trigonometric sums and are especially valuable as introductions to more advanced studies Translation of 1949 Russian edition *Elements of the Theory of Numbers* Joseph B. Dence, Thomas P. Dence, 1999-01-20 *Elements of the Theory of Numbers* teaches students how to develop implement and test numerical methods for standard mathematical problems The authors have created a two pronged pedagogical approach that integrates analysis and algebra with classical number theory Making greater use of the language and concepts in algebra and analysis than is traditionally encountered in introductory courses this pedagogical approach helps to instill in the minds of the students the idea of the unity of mathematics *Elements of the Theory of Numbers* is a superb summary of classical material as well as allowing the reader to take a look at the exciting role of analysis and algebra in number theory In depth coverage of classical number theory Thorough discussion of the theory of groups and rings Includes application of Taylor polynomials Contains more advanced material than other texts Illustrates the results of a theorem with an example Excellent presentation of the standard computational exercises Nearly 1000 problems many are proof oriented several others require the writing of computer programs to complete the computations Clear and well motivated presentation Provides historical references noting distinguished number theory luminaries such as Euclid de Fermat Hilbert Brun and Lehmer to name a few Annotated bibliographies appear at the end of all of the chapters

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**Elementary Number Theory** Charles Vanden Eynden, 2006-02-15 This practical and versatile text evolved from the author s years of teaching experience and the input of his students Vanden Eynden strives to alleviate the anxiety that many students experience when approaching any proof oriented area of mathematics including number theory His informal yet straightforward writing style explains the ideas behind the process of proof construction showing that mathematicians develop theorems and proofs from trial and error and evolutionary improvement not spontaneous insight Furthermore the book includes more computational problems than most other number theory texts to build students familiarity and confidence with the theory behind the material The author has devised the content organization and writing style so that information is accessible students can gain self confidence with respect to mathematics and the book can be used in a wide range of courses from those that emphasize history and type A problems to those that are proof oriented

**Elements of Number Theory** Kenneth F. Ireland, Michael I. Rosen, Michael Ira Rosen, 1972 *Elements of Number Theory* Isaac Albert Barnett, 1972 **Number Theory** Charles Vanden Eynden, 1970 **Elements of Number Theory ...** Ivan Matveevich Vinogradov, 2003 **Algebraic Number Theory** Ian Stewart, David Orme Tall, 1987-05-07 **Elements of Number Theory and Their History** Richard M.

Johnston,1954      **Elementary Number Theory** Gareth A. Jones,Josephine M. Jones,2012-12-06 Our intention in writing this book is to give an elementary introduction to number theory which does not demand a great deal of mathematical background or maturity from the reader and which can be read and understood with no extra assistance Our first three chapters are based almost entirely on A level mathematics while the next five require little else beyond some elementary group theory It is only in the last three chapters where we treat more advanced topics including recent developments that we require greater mathematical background here we use some basic ideas which students would expect to meet in the first year or so of a typical undergraduate course in mathematics Throughout the book we have attempted to explain our arguments as fully and as clearly as possible with plenty of worked examples and with outline solutions for all the exercises There are several good reasons for choosing number theory as a subject It has a long and interesting history ranging from the earliest recorded times to the present day see Chapter 11 for instance on Fermat's Last Theorem and its problems have attracted many of the greatest mathematicians consequently the study of number theory is an excellent introduction to the development and achievements of mathematics and indeed some of its failures In particular the explicit nature of many of its problems concerning basic properties of integers makes number theory a particularly suitable subject in which to present modern mathematics in elementary terms      Explorations in Number Theory Jeanne Agnew,1972      *Introduction to Number Theory* Daniel E. Flath,1989-01-17 On historical and mathematical grounds alike number theory has earned a place in the curriculum of every mathematics student This clear presentation covers the elements of number theory with stress on the basic topics concerning prime numbers and Diophantine equations especially quadratic equations in two variables Topics covered include distribution of primes unique factorization reduction of positive definite quadratic forms the Kronecker symbol continued fractions and what Gauss did      **The St. Petersburg School of Number Theory** Boris Nikolaevich Delone,2005 The book acquaints the reader with the most important works of these six eminent members of the St Petersburg school A short biography is given for each of them followed by an exposition of some of his most significant contributions Each contribution is presented as a summary of the author's original work and is followed by commentary Certain works receive relatively complete expositions while others are dealt with more briefly With a Foreword written for the English edition this volume will appeal to a broad mathematical audience including mathematical historians and mathematicians working in number theory Jacket      *Advanced Number Theory* Harvey Cohn,1980-08-01 A very stimulating book in a class by itself American Mathematical Monthly Advanced students mathematicians and number theorists will welcome this stimulating treatment of advanced number theory which approaches the complex topic of algebraic number theory from a historical standpoint taking pains to show the reader how concepts definitions and theories have evolved during the last two centuries Moreover the book abounds with numerical examples and more concrete specific theorems than are found in most contemporary treatments of the subject The book is divided into three parts Part I is concerned with

background material a synopsis of elementary number theory including quadratic congruences and the Jacobi symbol characters of residue class groups via the structure theorem for finite abelian groups first notions of integral domains modules and lattices and such basis theorems as Kronecker's Basis Theorem for Abelian Groups Part II discusses ideal theory in quadratic fields with chapters on unique factorization and units unique factorization into ideals norms and ideal classes in particular Minkowski's theorem and class structure in quadratic fields Applications of this material are made in Part III to class number formulas and primes in arithmetic progression quadratic reciprocity in the rational domain and the relationship between quadratic forms and ideals including the theory of composition orders and genera In a final concluding survey of more recent developments Dr Cohn takes up Cyclotomic Fields and Gaussian Sums Class Fields and Global and Local Viewpoints In addition to numerous helpful diagrams and tables throughout the text appendices and an annotated bibliography Advanced Number Theory also includes over 200 problems specially designed to stimulate the spirit of experimentation which has traditionally ruled number theory

*Number Theory* W.A. Coppel, 2009-08-12 Number Theory is more than a comprehensive treatment of the subject It is an introduction to topics in higher level mathematics and unique in its scope topics from analysis modern algebra and discrete mathematics are all included The book is divided into two parts Part A covers key concepts of number theory and could serve as a first course on the subject Part B delves into more advanced topics and an exploration of related mathematics The prerequisites for this self contained text are elements from linear algebra Valuable references for the reader are collected at the end of each chapter It is suitable as an introduction to higher level mathematics for undergraduates or for self study

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