

Module 5: Basic Number Theory

Theme 1: Division

Given two integers, say a and b , the quotient b/a may or may not be an integer (e.g., $16/4 = 4$ but $12/5 = 2.4$). Number theory concerns the former case, and discovers criteria upon which one can decide about divisibility of two integers.

More formally, for $a \neq 0$ we say that a **divides** b if there is another integer k such that

$$b = ka,$$

and we write $a|b$. In short:

$$a|b \text{ if and only if } \exists k \in \mathbb{Z} \ b = ka.$$

This simple definition leads to many properties of divisibility. For example, let us establish the following lemma.

Lemma 1 *If $a|b$ and $a|c$, then $a|(b + c)$.*

Proof. We give a direct proof. From the definition of divisibility and the hypotheses we know that there are integers t and s such that

$$b = ta, \quad c = sa.$$

Hence

$$b + c = a(s + t).$$

Since $s + t$ is an integer, we prove that $a|(b + c)$.

Exercise 5A: Prove the following two facts:

1. If $a|b$, then $a|bc$ for all integers c .
2. If $a|b$ and $b|c$, then $a|c$.

We already noted that an integer may be or not divisible by another integer. However, when dividing one number by another there is always a quotient and a remainder. More precisely, *if a and d are positive integers then there is a **unique** q and r such that*

$$a = dq + r$$

where $0 \leq r < d$ is a remainder. Observe that the remainder can take only d values $0, 1, \dots, d - 1$.

Basic Number Theory

Tristin Cleveland



Basic Number Theory:

Basic Number Theory, 2nd Edition Malik S.B.,2009-11-01 This book is designed to meet the needs of the first course in Number Theory for the undergraduate students of various Indian and foreign universities The students who are appearing at various competitive examinations where mathematics is on for testing shall also find it useful 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 back ground 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 A Guide to Elementary Number Theory Underwood Dudley,2009-12-31 An introductory guide to elementary number theory for advanced undergraduates and graduates **Elementary Theory of Numbers** C. Y. Hsiung,1992 This book explains clearly and in detail the basic concepts and methods of calculations of the elementary theory of numbers It consists of 7 chapters illustrated by numerous examples and exercises Answers together with some hints to the exercises are given at the end of the book It may be used as a textbook for undergraduate students **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

Basic Analytic Number Theory Anatolij A. Karatsuba, 2012-12-06 This English translation of Karatsuba's Basic Analytic Number Theory follows closely the second Russian edition published in Moscow in 1983. For the English edition the author has considerably rewritten Chapter I and has corrected various typographical and other minor errors throughout the text. August 1991 Melvyn B Nathanson Introduction to the English Edition It gives me great pleasure that Springer Verlag is publishing an English translation of my book. In the Soviet Union the primary purpose of this monograph was to introduce mathematicians to the basic results and methods of analytic number theory but the book has also been increasingly used as a textbook by graduate students in many different fields of mathematics. I hope that the English edition will be used in the same ways. I express my deep gratitude to Professor Melvyn B Nathanson for his excellent translation and for much assistance in correcting errors in the original text. A. A. Karatsuba

Introduction to the Second Russian Edition Number theory is the study of the properties of the integers. Analytic number theory is that part of number theory in which besides purely number theoretic arguments the methods of mathematical analysis play an essential role.

Elementary Number Theory with Applications Thomas Koshy, 2002 Elementary Number Theory focuses on number theory's role in the rapid development of art coding theory, cryptography, computer science and other necessities of modern life, confirming that human ingenuity and creativity are boundless.

Elementary Number Theory James S. Kraft, Lawrence C. Washington, 2014-11-24 Elementary Number Theory takes an accessible approach to teaching students about the role of number theory in pure mathematics and its important applications to cryptography and other areas. The first chapter of the book explains how to do proofs and includes a brief discussion of lemmas, propositions, theorems and corollaries. The core of the text

Elementary Number Theory Ethan D. Bolker, 2012-06-14 This text uses the concepts usually taught in the first semester of a modern abstract algebra course to illuminate classical number theory theorems on primitive roots, quadratic Diophantine equations and more.

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The first part of this volume is based on a course taught at Princeton University in 1961-62. At that time an excellent set of notes was prepared by David Cantor and it was originally my intention to make these notes available to the mathematical public with only quite minor changes. Then among some old papers of mine I accidentally came across a long forgotten manuscript by Chevalley of pre-war vintage, forgotten that is to say both by me and by its author, which to my taste at least seemed to have aged very well. It contained a brief but essentially complete account of the main features of classfield theory, both local and global, and it soon became obvious that the usefulness of the intended volume would be greatly enhanced if I included such a treatment of this topic. It had to be expanded in accordance with my own plans but its outline could be preserved without much change. In fact I have adhered to it rather closely at some critical points.

Elementary Number Theory and Its Applications Kenneth H. Rosen, 1993 New edition of a standard text. Integrates classical material with applications to cryptography and computer science. The author is with AT T Bell Labs.

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Elementary Methods in Number Theory Melvyn B.

Nathanson,2008-01-11 This basic introduction to number theory is ideal for those with no previous knowledge of the subject The main topics of divisibility congruences and the distribution of prime numbers are covered Of particular interest is the inclusion of a proof for one of the most famous results in mathematics the prime number theorem With many examples and exercises and only requiring knowledge of a little calculus and algebra this book will suit individuals with imagination and interest in following a mathematical argument to its conclusion **Elementary Number Theory** Underwood

Dudley,2012-06-04 Written in a lively engaging style by the author of popular mathematics books this volume features nearly 1 000 imaginative exercises and problems Some solutions included 1978 edition *Basic Number Theory, 2nd Edition* Malik S.B.,2009-11-01 This book is designed to meet the needs of the first course in Number Theory for the undergraduate students of various Indian and foreign universities The students who are appearing at various competitive examinations where mathematics is on for testing shall also find it useful Elementary Number Theory Underwood Dudley,1978 With almost a thousand imaginative exercises and problems this book stimulates curiosity about numbers and their properties

Elementary Number Theory in Nine Chapters James J. Tattersall,1999-10-14 This book is intended to serve as a one semester introductory course in number theory Throughout the book a historical perspective has been adopted and emphasis is given to some of the subject s applied aspects in particular the field of cryptography is highlighted At the heart of the book are the major number theoretic accomplishments of Euclid Fermat Gauss Legendre and Euler and to fully illustrate the properties of numbers and concepts developed in the text a wealth of exercises have been included It is assumed that the reader will have pencil in hand and ready access to a calculator or computer For students new to number theory whatever their background this is a stimulating and entertaining introduction to the subject **The Whole Truth About Whole**

Numbers Sylvia Forman,Agnes M. Rash,2015-01-02 The Whole Truth About Whole Numbers is an introduction to the field of Number Theory for students in non math and non science majors who have studied at least two years of high school algebra Rather than giving brief introductions to a wide variety of topics this book provides an in depth introduction to the field of Number Theory The topics covered are many of those included in an introductory Number Theory course for mathematics majors but the presentation is carefully tailored to meet the needs of elementary education liberal arts and other non mathematical majors The text covers logic and proofs as well as major concepts in Number Theory and contains an abundance of worked examples and exercises to both clearly illustrate concepts and evaluate the students mastery of the material Elementary Theory of Numbers William J. LeVeque,2014-01-15 This superb text introduces number theory to readers with limited formal mathematical training Intended for use in freshman and sophomore level courses in arts and science curricula in teacher training programs and in enrichment programs for high school students it is filled with simple problems to stimulate readers interest challenge their abilities and increase mathematical strength Contents I Introduction II

The Euclidean Algorithm and Its Consequences III Congruences IV The Powers of an Integer Modulo m V Continued Fractions VI The Gaussian Integers VII Diophantine Equations Requiring only a sound background in high school mathematics this work offers the student an excellent introduction to a branch of mathematics that has been a strong influence in the development of higher pure mathematics both in stimulating the creation of powerful general methods in the course of solving special problems such as Fermat conjecture and the prime number theorem and as a source of ideas and inspiration comparable to geometry and the mathematics of physical phenomena Number Theory Tristin Cleveland, 2018-04-11 In spite of the fact that arithmetic majors are generally familiar with number hypothesis when they have finished a course in conceptual polynomial math different students particularly those in training and the human sciences regularly require a more essential prologue to the theme In this book the writer takes care of the issue of keeping up the enthusiasm of understudies at the two levels by offering a combinatorial way to deal with basic number hypothesis In concentrate number hypothesis from such a point of view arithmetic majors are saved reiteration and furnished with new bits of knowledge while different understudies advantage from the subsequent effortlessness of the verifications for some hypotheses Of specific significance in this content is the creator's accentuation on the estimation of numerical cases in number hypothesis and the part of PCs in getting such illustrations The point of this book is to acquaint the reader with essential subjects in number hypothesis hypothesis of distinctness arithmetrical capacities prime numbers geometry of numbers added substance number hypothesis probabilistic number hypothesis hypothesis of Diophantine approximations and logarithmic number hypothesis *Number Theory* Titu Andreescu, Dorin Andrica, 2009-06-12 This introductory textbook takes a problem solving approach to number theory situating each concept within the framework of an example or a problem for solving Starting with the essentials the text covers divisibility unique factorization modular arithmetic and the Chinese Remainder Theorem Diophantine equations binomial coefficients Fermat and Mersenne primes and other special numbers and special sequences Included are sections on mathematical induction and the pigeonhole principle as well as a discussion of other number systems By emphasizing examples and applications the authors motivate and engage readers

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