

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

William J. LeVeque



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

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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

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