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theory for math majors and in many cases as an elective course. The notes contain a useful introduction to important topics that need to be addressed in a course in number theory.

An Introductory Course in Elementary Number Theory

prerequisites for this book are more than the prerequisites for most elementary number theory books, while still being aimed at undergraduates. Notation and Conventions. We let $\mathbb{N} = \{1;2;3;\dots\}$ denote the natural numbers, and use the standard notation \mathbb{Z} , \mathbb{Q} , \mathbb{R} , and \mathbb{C} for the rings of integer, rational, real, and complex numbers, respectively.

Elementary Number Theory: Primes, Congruences, and Secrets

In this book, all numbers are integers, unless specified otherwise. Thus in the next definition, d , n , and k are integers. 1.1 Definition The number d divides the number n if there is a k such that $n = dk$. (Alternate terms are: d is a divisor of n , or d is a factor of n , or n is a multiple of d .) This relationship between d and n is symbolized $d \mid n$.

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This ancillary textbook is intended for everyone interested in number theory. It will be of especial value to instructors and students both as a textbook and a source of reference in mathematics study groups.

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