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Thus $c + b = s^2$; $c - b = t^2$; where $s > t > 1$ are odd integers with no common factors. Then $a = p(c - b)(c + b) = p s^2 t^2 = st$: We can now solve for b and c to obtain our first Theorem 1.6. Every PPT $(a; b; c)$ with a odd satisfies $a = st$; $b = s^2 t^2$; $c = s^2 + t^2$; where $s > t > 1$ are chosen to be odd integers with no common factors.

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If a and b are integers such that $a \neq 0$, then we say " a divides b " if there exists an integer k such that $b = ka$. If a divides b , we also say " a is a factor of b " or " b is a multiple of a " and we write $a|b$. If a doesn't divide b , we write $a \nmid b$. For example $2|4$ and $7|63$, while $5 \nmid 26$. Example 3.

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This witty introduction to number theory deals with the properties of numbers and numbers as abstract concepts. Topics include primes, divisibility, quadratic forms, and related theorems.

One of the oldest branches of mathematics, number theory is a vast field devoted to studying the properties of whole numbers. Offering a flexible format for a one- or two-semester course, Introduction to Number Theory uses worked examples, numerous exercises, and two popular software packages to describe a diverse array of number theory topics. This classroom-tested, student-friendly text covers a wide range of subjects, from the ancient Euclidean algorithm for finding the greatest common divisor of two integers to recent developments that include cryptography, the theory of elliptic curves, and the negative solution of Hilbert's tenth problem. The authors illustrate the connections between number theory and other areas of mathematics, including algebra, analysis, and combinatorics. They also describe applications of number theory to real-world problems, such as congruences in the ISBN system, modular arithmetic and Euler's theorem in RSA encryption, and quadratic residues in the construction of tournaments. The book interweaves the theoretical development of the material with Mathematica® and Maple™ calculations while giving brief tutorials on the software in the appendices. Highlighting both fundamental and advanced topics, this introduction provides all of the tools to achieve a solid foundation in number theory.

This book presents material suitable for an undergraduate course in elementary number theory from a computational perspective. It seeks to not only introduce students to the standard topics in elementary number theory, such as prime factorization and modular arithmetic, but also to develop their ability to formulate and test precise conjectures from experimental data. Each topic is motivated by a question to be answered, followed by some experimental data, and, finally, the statement and proof of a theorem. There are numerous opportunities throughout the chapters and exercises for the students to engage in (guided) open-ended exploration. At the end of a course using this book, the students will understand how mathematics is developed from asking questions to gathering data to formulating and proving theorems. The mathematical prerequisites for this book are few. Early chapters contain topics such as integer divisibility, modular arithmetic, and applications to cryptography, while later chapters contain more specialized topics, such as Diophantine approximation, number theory of dynamical systems, and number theory with polynomials. Students of all levels will be drawn in by the patterns and relationships of number theory uncovered through data driven exploration.

Designed for undergraduate courses in advanced calculus and real analysis, this book is an easily readable, intimidation-free advanced calculus textbook. Ideas and methods of proof build upon each other and are explained thoroughly.

An undergraduate-level 2003 introduction whose only prerequisite is a standard calculus course.

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