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So  $N^2 + 1$  will never be prime if  $N \equiv 2 \pmod{4}$ . The  $N^2 + 4$  column is similarly explained by the formula  $N^2 + 4 = (N^2)(N + 2)$ . More generally, if  $a$  is a perfect square, say  $a = b^2$ , then there will not be in nitely many primes of the form  $N^2 + a$ , since  $N^2 + a = N^2 + b^2 = (N + b)(N - b)$ .

What Is Number Theory?

Fourth Edition □ ISBN: 978-0-321-81619-1 □ © 2012 Pearson Education, Inc. ix + 409 + (56 online) pages □ Available from

Amazon A Friendly Introduction to Number Theory is an introductory undergraduate text designed to entice non-math majors into learning some mathematics, while at the same time teaching them how to think mathematically.

A Friendly Introduction to Number Theory

There are two solutions  $\text{smod } 4$  of  $f(s) \equiv 0 \pmod{4}$  lifting  $r \equiv 1 \pmod{2}$ ,

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namely  $s \equiv 1 \pmod{4}$  and  $s \equiv 3 \pmod{4}$ . 3. Let  $p = 2$ ,  $f(x) = x^2 + 1$ , so that  $r = 1 \pmod{2}$  is a solution of  $f(r) \equiv 0 \pmod{2}$ , with  $f(r) = 2 \pmod{4}$ ,  $f(r) \not\equiv 0 \pmod{4}$ ,  $f(0) \equiv 0 \pmod{2}$ . There is no solution  $s \in \mathbb{Z}$  of  $f(s) \equiv 0 \pmod{4}$ , let alone one which lifts  $1 \pmod{2}$ .

Introduction to Number Theory Lecture Notes

Solutions Manual for A Friendly Introduction to Number Theory  
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Theory? Exercises. The first two numbers that are both squares and triangles are 1 and 36. Find the next one and, if possible, the one after that. Can you figure out an efficient way to find triangular square numbers?

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Publisher's description: A Friendly Introduction to Number Theory is an introductory undergraduate text designed to entice non-math majors into learning some mathematics, while at the same time teaching them how to think mathematically. The exposition is informal, with a wealth of numerical examples that are analyzed for patterns and used to make conjectures. Only then are theorems proved, with the emphasis on methods of proof rather than on specific results. Starting with nothing more than basic high school algebra, the reader is gradually led to the point of producing their own conjectures and proofs, as well as getting some glimpses at the frontiers of current mathematical research.

Originally published in 2013, reissued as part of Pearson's modern classic series.

This second edition updates the well-regarded 2001 publication

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with new short sections on topics like Catalan numbers and their relationship to Pascal's triangle and Mersenne numbers, Pollard rho factorization method, Hoggatt-Hensell identity. Koshy has added a new chapter on continued fractions. The unique features of the first edition like news of recent discoveries, biographical sketches of mathematicians, and applications--like the use of congruence in scheduling of a round-robin tournament--are being refreshed with current information. More challenging exercises are included both in the textbook and in the instructor's manual. Elementary Number Theory with Applications 2e is ideally suited for undergraduate students and is especially appropriate for prospective and in-service math teachers at the high school and middle school levels. \* Loaded with pedagogical features including fully worked examples, graded exercises, chapter summaries, and computer exercises \* Covers crucial applications of theory like computer security, ISBNs, ZIP codes, and UPC bar codes \* Biographical sketches lay out the history of mathematics, emphasizing its roots in India and the Middle East

"This book is the first volume of a two-volume textbook for undergraduates and is indeed the crystallization of a course offered by the author at the California Institute of Technology to undergraduates without any previous knowledge of number theory. For this reason, the book starts with the most elementary properties of the natural integers. Nevertheless, the text succeeds in presenting an enormous amount of material in little more than 300 pages."-MATHEMATICAL REVIEWS

Accessible to all students with a sound background in high school mathematics, A Concise Introduction to Pure Mathematics, Fourth Edition presents some of the most fundamental and beautiful ideas in pure mathematics. It covers not only standard material but also many interesting topics not usually encountered at this level, such as the theory of solving cubic equations; Euler's formula for the

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numbers of corners, edges, and faces of a solid object and the five Platonic solids; the use of prime numbers to encode and decode secret information; the theory of how to compare the sizes of two infinite sets; and the rigorous theory of limits and continuous functions. New to the Fourth Edition Two new chapters that serve as an introduction to abstract algebra via the theory of groups, covering abstract reasoning as well as many examples and applications New material on inequalities, counting methods, the inclusion-exclusion principle, and Euler's phi function Numerous new exercises, with solutions to the odd-numbered ones Through careful explanations and examples, this popular textbook illustrates the power and beauty of basic mathematical concepts in number theory, discrete mathematics, analysis, and abstract algebra. Written in a rigorous yet accessible style, it continues to provide a robust bridge between high school and higher-level mathematics, enabling students to study more advanced courses in abstract algebra and analysis.

In a manner accessible to beginning undergraduates, *An Invitation to Modern Number Theory* introduces many of the central problems, conjectures, results, and techniques of the field, such as the Riemann Hypothesis, Roth's Theorem, the Circle Method, and Random Matrix Theory. Showing how experiments are used to test conjectures and prove theorems, the book allows students to do original work on such problems, often using little more than calculus (though there are numerous remarks for those with deeper backgrounds). It shows students what number theory theorems are used for and what led to them and suggests problems for further research. Steven Miller and Ramin Takloo-Bighash introduce the problems and the computational skills required to numerically investigate them, providing background material (from probability to statistics to Fourier analysis) whenever necessary. They guide students through a variety of problems, ranging from basic number theory, cryptography, and Goldbach's Problem, to the algebraic



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structures of numbers and continued fractions, showing connections between these subjects and encouraging students to study them further. In addition, this is the first undergraduate book to explore Random Matrix Theory, which has recently become a powerful tool for predicting answers in number theory. Providing exercises, references to the background literature, and Web links to previous student research projects, *An Invitation to Modern Number Theory* can be used to teach a research seminar or a lecture class.

Normal 0 false false false *Mathematical Proofs: A Transition to Advanced Mathematics, Third Edition*, prepares students for the more abstract mathematics courses that follow calculus.

Appropriate for self-study or for use in the classroom, this text introduces students to proof techniques, analyzing proofs, and writing proofs of their own. Written in a clear, conversational style, this book provides a solid introduction to such topics as relations, functions, and cardinalities of sets, as well as the theoretical aspects of fields such as number theory, abstract algebra, and group theory. It is also a great reference text that students can look back to when writing or reading proofs in their more advanced courses.

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