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Number Theory .-WACLAW SIERPINSKI "250 Problems in Elementary Number Theory" presents problems and their solutions in five specific areas of this branch of mathematics: divisibility of numbers, relatively prime numbers, arithmetic progressions, prime and composite numbers, and Diophantine equations. There is, in addition, a section of

Problems in Elementary Number Theory

For example, here are some problems in number theory that remain unsolved. (Recall that a prime number is an integer greater than 1 whose only positive factors are 1 and the number itself.) Note that these problems are simple to state — just because a topic is accessible does not mean that it is easy. 1.

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Solution. (a) False: Let $n=36$, $a=2$, and $b=3$. (b) If $n=p^2 k$ and b is the largest square divisor of n , then by Exercise 1.8, $b=p^2$. If $n=p^2 k$ and b is the largest square divisor of n , then $b=p^2$. Exercise 1.10. Given x and y , let $m=ax+by$, $n=cx+dy$, where $ad-bc=1$. Prove that $(m;n)=(x;y)$.

250 PROBLEMS IN ELEMENTARY NUMBER THEORY

Created on June, 2011. Problems are taken from IMO, IMO Shortlist/Longlist, and some other famous math competitions.

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Changes in the 4th Edition. Chapter 39 includes a proof that the period of the Fibonacci sequence modulo p divides $p-1$ when p is congruent to 1 or 4 modulo 5. There are many new exercises scattered throughout the text. A flowchart giving chapter dependencies is included on page ix. Number theory is a vast and sprawling subject,...

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Algebraic number theory. An algebraic number is any complex number that is a solution to some polynomial equation with rational coefficients; for example, every solution of (say) is an algebraic number. Fields of algebraic numbers are also called algebraic number fields, or shortly number fields.

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any challenging, interesting, beautiful or historical problems in elementary number theory (by email or via the website) that you think might belong in the book. On the website you can also help me collecting solutions for the problems in the book (all available solutions will be on the website only). You can send all comments to both authors at

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"Introduction to The Theory of Numbers", 5th Ed., by Niven, Zuckerman, and Montgomery. The book is unfortunately rather expensive. You may use the 4th edition, which you can find much cheaper used. It omits some material that we will cover, but I will provide extensive notes so that you will not be at a disadvantage for using this older edition.

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By elementary number theory, -1 is a square mod p , i.e., there exists an integer n such that $p \mid n^2 + 1 = (n + i)(n - i)$. Suppose p is irreducible in $\mathbb{Z}[i]$. Then since irreducible elements of $\mathbb{Z}[i]$ are prime, we must have $p \mid (n \pm i)$. However, if $p \mid (n + i)$ then it is easy to see that $p \mid (n - i)$ also, and vice-versa.

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Elementary Number Theory

Number theory. In contrast to other branches of mathematics, many of the problems and theorems of number theory can be understood by laypersons, although solutions to the problems and proofs of the theorems often require a sophisticated mathematical background. Until the mid-20th century, number theory was considered the purest branch of mathematics,...

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Some of these will be discussed in this course. A solution to any one of these problems would make you quite famous (at least among mathematicians). Many of these problems concern prime numbers. A prime number is an integer greater than 1 whose only positive factors are 1 and the integer itself.

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Solution: Suppose the number has n digits, all k 's. If n is even, then $k - k + k - k + \dots + k - k = 0$ is divisible by 11, so the number is. If n is odd, then $k - k + k - k + \dots - k + k = k$ which is not divisible by 11. So a number whose digits are all the same is divisible by 11 if and only if it has an even number of digits.

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