

Number Theory For Mathematical Contests

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Number Theory is one of the oldest and most beautiful branches of Mathematics. It abounds in problems that yet simple to state, are very hard to solve. Some number-theoretic problems that are yet unsolved are: 1. (Goldbach's Conjecture) Is every even integer greater than 2 the sum of distinct primes? 2.

Number Theory for Mathematical Contests

Number Theory for Mathematical Contests David A. SANTOS dsantos@ccp.edu October 31, 2007
REVISION

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These are all questions in number theory, the branch of mathematics that's primarily concerned with our counting numbers, 1, 2, 3, etc. Of particular importance are the prime numbers, the 'building blocks' of our number system.

Number Theory: Queen of Mathematics

Number theory (or arithmetic or higher arithmetic in older usage) is a branch of pure mathematics devoted primarily to the study of the integers and integer-valued functions. German mathematician Carl Friedrich Gauss (1777–1855) said, "Mathematics is the queen of the sciences—and number theory is the

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queen of mathematics."

Number theory - Wikipedia

The Journal of Number Theory (JNT) features selected research articles that represent the broad spectrum of interest in contemporary number theory and allied areas. A valuable resource for mathematicians, the journal provides an international forum for the publication of original research in this field...

Journal of Number Theory - Elsevier

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AJ Hildebrand

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A favourite result is the representation of arithmetic progressions in the form of “polygonal numbers.” For instance, if the numbers 1, 2, 3, 4,...are added successively, the “triangular” numbers 1, 3, 6, 10,...are obtained; similarly, the odd numbers 1, 3, 5, 7,...sum to the “square” numbers 1, 4, 9, 16,..., while the sequence 1, 4, 7, 10,..., with a constant difference of 3, sums to the “pentagonal” numbers 1, 5, 12, 22,....

Mathematics - Number theory | Britannica

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