

JOHANNES GOLDBACH

Goldbach's Conjecture

Every even integer greater than 2 can be expressed as the sum of two prime numbers.

In 1742, Goldbach wrote to Euler that every even integer greater than 2 is the sum of two primes. Euler responded that he believed this to be true, but that he could not prove it. This conjecture has since become one of the most famous unsolved problems in mathematics.

The conjecture is often written as $n = p + q$, where n is an even integer greater than 2, and p and q are prime numbers. For example, $4 = 2 + 2$, $6 = 3 + 3$, $8 = 3 + 5$, and $10 = 3 + 7$.