

Modular Forms And Fermats Last Theorem

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Modular Forms And Fermats Last

Fermat's little theorem states that if p is a prime number, then for any integer a , the number $a^p - a$ is an integer multiple of p . In the notation of modular arithmetic, this is expressed as $a^p \equiv a \pmod{p}$. For example, if $a = 2$ and $p = 7$, then $2^7 = 128$, and $128 - 2 = 126 = 7 \times 18$ is an integer multiple of 7 . If a is not divisible by p , Fermat's little theorem is equivalent to the statement that $a^{p-1} \equiv 1 \pmod{p}$.

Fermat's little theorem - Wikipedia

Fermat's Last Theorem, formulated in 1637, states that no three distinct positive integers a , b , and c can satisfy the equation $a^n + b^n = c^n$ if n is an integer greater than two ($n > 2$). Over time, this simple assertion became one of the most famous unproved claims in mathematics. Between its publication and Andrew Wiles's eventual solution over 350 years later, many mathematicians and amateurs ...

Wiles's proof of Fermat's Last Theorem - Wikipedia

The result is called Fermat's "little theorem" in order to distinguish it from Fermat's last theorem. (Fermat, 1640) Let p be a prime number, and a be any integer. Then $a^p - a$ is always divisible by p . In modular arithmetic notation, this can be written as $a^p \equiv a \pmod{p}$.

Fermat's Little Theorem | Brilliant Math & Science Wiki

Wiles' based his work on a 1986 result of Ken Ribet which showed that the Taniyama-Shimura conjecture in arithmetic/algebraic geometry implies Fermat's Last Theorem. Wiles was able to prove the Taniyama-Shimura conjecture, which establishes a "dictionary" between elliptic curves and modular forms , by converting elliptic curves into ...

Fermat's Last Theorem - Math Fun Facts

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