

infinity prime proof

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November 2, 2014

I think the next classically well known proof.

Theorem

Prime numbers are infinitely exists.

Proof)

I suppose prime numbers are finite.

p_1, \dots, p_n are these prime numbers.

Then $p_1 \times p_2 \times \dots \times p_n + 1$ is not divided by all prime numbers p_1, \dots, p_n .

The numbers of Prime numbers are $n + 1$. This is the contradiction.

Prime numbers are infinitely main.

So, if 2, 3, 5, 7, 11, 13 is the limited prime numbers, then $2 \times 3 \times 5 \times 7 \times 11 \times 13 + 1 = 30031$ is Prime?

30031 is the convolution number.