

There Is No Largest Prime Number

With an introduction to a new proof technique

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Results

Proof of the Main Theorem

There Is No Largest Prime Number

The proof uses *reductio ad absurdum*.



Theorem

There is no largest prime number.

Proof.

1. Suppose p were the largest prime number.
2. Let q be the product of the first p numbers.
3. Then $q + 1$ is not divisible by any of them.
4. Thus $q + 1$ is also prime and greater than p .



Thanks for your patience. Are there any questions?

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GPG Fingerprint:

`7CB6 197E 385A 02DC 15D8 E223 E4DB 6492 FDB9 B5D5`