There Is No Largest Prime Number

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There Is No Largest Prime Number The proof uses *reductio ad absurdum*.

Theorem

There is no largest prime number.

1 Suppose p were the largest prime number.

But q+1 is greater than 1, thus divisible by some prime number not in the first p numbers.

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- But q+1 is greater than 1, thus divisible by some prime number not in the first p numbers.

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Theorem

There is no largest prime number.

- Suppose p were the largest prime number.
- Then q+1 is not divisible by any of them.
- But q + 1 is greater than 1, thus divisible by some prime number not in the first p numbers.

A longer title

- one
- two