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.

4 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.

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

A longer title

- one
- two