There Is No Largest Prime Number

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#### 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.
- 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.

### Itemize Test

### Some text might go here

- First item
- Second item
- Third item
- Fourth item
- Fifth item