Euclid of Alexandria euclid@alexandria.edu July 9, 2016



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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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### Theorem

There is no largest prime number.

- 11 Suppose p were the largest prime number.
- 2 Let q be the product of the first p numbers.
- 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