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



The command \titlepage is not supported

Use the command \insertTitleSlide instead. This command does not go in a frame environment.

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.

The proof uses reductio ad absurdum.

Theorem

There is no largest prime number.

- 1 Suppose *p* were the largest prime number.
- 2 Let q be the product of the first p numbers.
- 4 But q + 1 is greater than 1, thus divisible by some prime number not in the first p numbers.

The proof uses reductio ad absurdum.

Theorem

There is no largest prime number.

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

A longer title

- one
- two