

Northwestern

There Is No Largest Prime Number

Euclid of Alexandria euclid@alexandria.edu

27th International Symposium of Prime Numbers

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.
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



Section Example

Box Examples

Example Block

This is an example block

Alert Box

This is an alert box

Example Box

This is an example box