Fuklid

Results

Proof of the Ma

There Is No Largest Prime Number With an introduction to a new proof technique

Euklid of Alexandria

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Results

Proof of the Main Theorem



There Is No Largest Prime Number

The proof uses reductio ad absurdum.

Result

Proof of the Main Theorem

Theorem

There is no largest prime number.

Proof.

- 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. Thus q + 1 is also prime and greater than p.

