There Is No Largest Prime Number

Euklid

Results

Proof of the Mai Theorem

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

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There Is No Largest Prime Number

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Results

Proof of the Main Theorem

There Is No Largest Prime Number

The proof uses reductio ad absurdum.

Theorem There is no largest prime number.

Proof.

1 Suppose *p* were the largest prime number.

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.