Results
Proof of the Main

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

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Results
Proof of the Main Theorem



There Is No Largest Prime Number

The proof uses reductio ad absurdum.

Results
Proof of the Main

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.

