

There Is No Largest Prime Number

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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.

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



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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.

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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

One can prove that

$$1 = 1$$



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Example

For clarity:

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