Northwestern

There Is No Largest Prime Number

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27th International Symposium of Prime Numbers

There Is No Largest Prime Number

The proof uses *reductio ad absurdum*.

Theorem

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3. Then $q + 1$ is not divisible by any of them.

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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

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Alert Box

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Example Box

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