### Empty slide

There Is No Largest Prime Number



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#### Theorem

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#### **Theorem**

There is no largest prime number.

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- 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