



UNIVERSITÄT **BONN**

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# Title

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# There Is No Largest Prime Number

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## 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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- 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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*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.

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