

The density of primes

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Abstract

In this paper, we analyze the behavior of prime numbers.

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1 Introduction and results

In 1859, Riemann [Rie59] computed the distribution of primes. Our mission is to axiomatize the structure of primes. We have the following postulate.

Postulate 1. Let p be a prime number. Then:

1. $p \neq 0, 1$.
2. $1 \mid p$.
3. $p^0 = 1$.
4. $4 \nmid 5p$.

References

[Rie59] B. Riemann. Ueber die Anzahl der Primzahlen unter einer gegebenen Grösse. *Monatsber. Akad. Berlin*, pages 671–680, 1859.