# 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. $p \nmid p+1$.

## References

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

