

# Number Theory

## Number Theory

Number theory is the branch of mathematics devoted to the study of integers and integer-valued functions. It is one of the oldest and most beautiful areas of mathematics.

### Core Concepts

#### Prime Numbers and Divisibility

- [Definition: Prime Number](#)
- [Theorem: Fundamental Theorem of Arithmetic](#)
- [Theorem: Euler's Theorem](#)

#### Congruences and Modular Arithmetic

Coming soon...

#### Diophantine Equations

Coming soon...

#### Analytic Number Theory

Coming soon...

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The following pages are available in this section:

#### Note

Content is being actively developed. Check back frequently for updates.