

# Theoretical Guide

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### 1 Math

### 2 C++

### 3 Identities

### 4 Geometry

### 5 Constants

### 6 Bitwise

### 7 Number Theory

### 8 Notes

### 9 Progressions

This text will appear **immediately** below the category title.

You can add images like *this*:



#### 9.1 Geometric Progression

General Term:  $a_1 \times q^{n-1}$

Sum:  $\frac{a_1(q^n - 1)}{q - 1}$

Infinite Sum:

$$-1 < q < 1$$

$$\frac{a_1}{1 - q}$$

### 10 Counting Problems