

Logic and Number Theory

7.1 Combinatorics

7.1.1 *Sum and product*

Definition 7.1. The sum $a_1 + a_2 + \cdots + a_n$ and the product $a_1 \cdot a_2 \cdot \cdots \cdot a_n$ are written as

$$\sum_{k=1}^n a_k \quad \text{and} \quad \prod_{k=1}^n a_k, \quad \text{respectively.} \quad (7.1)$$

$\sum$ is called the sum symbol and $\prod$ is called the product symbol. The summation and the product can have other *indices* than 1 and n . k is called *dummy index* and can be replaced by any other symbol which is not included in the expression of a_k :s.

Sequences and sums are introduced on page 307 and subsequent pages.

7.1.2 *Factorials*

Example 7.1. The product $1 \cdot 2 \cdot 3 \cdot 4$ is written $\prod_{k=1}^4 k$. This product of consecutive integers is also written $4!$ (reads “four-factorial”).

In the following definitions, n represents a non-negative integer.

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Tao Wei



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