

REAL SUMMATION

Why

We want a notation for expressing the sum of a sequence of real numbers.

Definition

Let $x = (x_1, ..., x_n)$ be a sequence of real numbers. The *sequence sum* of x is the result of first summing the first two numbers, then summing the result with the third number, and so on, until we have summed all the numbers.

Notation

Let $x = (x_1, ..., x_n)$ be a sequence of real numbers. We denote the sequence sum of x by

$$\sum_{i=1}^{n} x_i$$

