

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

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

