

Notes on Dr. McReynold's Analysis

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Chapter 5

Series

Series: The basics

Given a finite set $A \subset \mathbb{R}$, we can list off the elements of $A = \{a_1, \dots, a_n\}$. We are going to allow separate $a_i = a_j, i \neq j$

We can view this data as a function $f : 1, \dots, n \rightarrow \mathbb{R}$ where $f(i) = a_i$. The sum of a is:

$$S(A) \stackrel{def}{=} a_1 + \dots + a_n = \sum_{i=1}^n a_i$$