

## What is a Series?

**Aim**

To define what a series is.

**Learning Outcomes**

At the end of this section you will:

- Understand what a series is,
- Know how to represent a series.

**Definition:** A series is formed when the terms of a sequence are added together. For example (i)  $2, 5, 8, 11, 14, \dots$ , is an infinite sequence, but  $2 + 5 + 8 + 11 + 14 + \dots$  is an infinite series.

A series can have an infinite or a finite number of terms.

### Related Reading

Gersting, J.L. 2007. *Mathematical Structures for Computer Science*. 6<sup>th</sup> Edition. Freeman & Company.

Morris, O.D. 1992. *Text & Tests 4*. The Celtic Press.