

Sequences, Series and Sigma Notation

Learning objectives

This unit extends the algebraic themes met in earlier units, to sequences and series. After completing this unit you should

- understand the concept of a general geometric sequence
- be able to sum the first n terms of a geometric series and consider the convergence of this sum as $n \rightarrow \infty$
- understand the concept of a general arithmetic sequence
- be able to sum the first n terms of an arithmetic series
- understand and use the Σ notation of summing series.