

Section 3: Geometric sequences and series

Crucial points

1. Know the formulae

Make sure that you know the formulae for the kth term of a geometric sequence, the sum of the first n terms of a geometric sequence, and the sum to infinity of a convergent geometric sequence. It's a good idea to make sure you can prove these formulae. This will help you to remember them. See the Notes and Examples.

2. Beware of simple arithmetical errors

Be careful if the common ratio of a geometric sequence is negative. Make sure that you are using your calculator correctly to find powers of a negative number – use brackets if necessary.

