Exercise 1 Calc. : ✓

You must justify your answers by writing all calculations that are relevant to your solutions.

1. The 4th term of a geometric series is 10 and the 7th term is 80.

   Use this information to find the common ratio and the first term for this series and hence find the sum of the first 15 terms.

   5 marks

2. A different series begins by adding the following numbers

$$14 + 19 + 24 + \ldots$$

   How many terms of this series must be added together in order to exceed the sum of the first 15 terms of the geometric series?

   5 marks