

- 4 The common ratio of a geometric series G is positive.

The sum of the first 4 terms of G is 80

The sum to infinity of G is 81

Show that the sum of the first 7 terms of G differs from the sum to infinity of G by $\frac{1}{27}$

(7)

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Question 4 continued

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(Total for Question 4 is 7 marks)