

Advanced Higher Maths
SQA 2016 Paper
Question 2

A geometric sequence has second and fifth terms 108 and 4 respectively.

- (a) Calculate the value of the common ratio. 3
- (b) State why the associated geometric series has a sum to infinity. 1
- (c) Find the value of this sum to infinity. 2
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Answers:

- (a) $r = \frac{1}{3}$
- (b) $-1 < \frac{1}{3} < 1$
- (c) 486