

- 3 The n th term of an arithmetic series is u_n such that

$$u_n = \ln a + (n - 1) \ln b$$

where a and b are positive integers.

Given that $u_2 = \ln 12$ and that $u_5 = \ln 768$

find the value of a and the value of b .

(7)

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Question 3 continued

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(Total for Question 3 is 7 marks)

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