

- 9 The 4th term of an arithmetic series is 108 and the 11th term is 80

Find

- (a) (i) the common difference of the series,
(ii) the first term of the series.

(4)

The sum of the first n terms of the series is S_n

- (b) Show that $S_n = 2n(61 - n)$

(3)

Given that $S_n = 1100$

- (c) find the two possible values of n .

(4)

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Question 9 continued

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Question 9 continued

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Question 9 continued**(Total for Question 9 is 11 marks)**

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