**Answer all ELEVEN questions.**

**Write your answers in the spaces provided.**

**You must write down all the stages in your working.**

1 The $n$th term of an arithmetic series is $a_n$ where

$$a_{10} + a_{11} + a_{12} = 129 \qquad \text{and} \qquad a_{19} + a_{20} + a_{21} = 237$$

Find $a_1$

**(4)**

**(Total for Question 1 is 4 marks)**

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