

Answer all TEN 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 A is a_n

The n th term of a geometric series G is t_n

For these two series

$$a_1 = t_1 \quad a_{10} = t_3 = 48 \quad a_{10} = 4t_2$$

Find

(i) the common ratio of G ,

(ii) the common difference of A .

(6)

(Total for Question 1 is 6 marks)

