2 The sum of the first n terms of an arithmetic series is S_n

Given that
$$S_n = \sum_{r=1}^n (4r+1)$$

(a) show that
$$S_n = n(3 + 2n)$$

(4)

The rth term of this arithmetic series is t_r

Given that
$$S_{n+3} = S_n + 3t_{15}$$

(b) find the value of
$$n$$
.

(4)

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Question 2 continued



Question 2 continued

Question 2 continued

(Total for Question 2 is 8 marks)

