

2 (a) Show that $\sum_{r=1}^n (3r + 2) = \frac{n}{2} (7 + 3n)$ (2)

(b) Hence, or otherwise, evaluate $\sum_{r=10}^{20} (3r + 2)$ (3)

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Question 2 continued

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(Total for Question 2 is 5 marks)