

3 (a) Show that $\sum_{r=1}^n (5r - 3) = \frac{n}{2}(5n - 1)$ (3)

(b) Hence, or otherwise, evaluate $\sum_{r=31}^{60} (5r - 3)$ (2)

Given that $\sum_{r=1}^n (5r - 3) = 3783$

(c) find the value of n (3)

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Question 3 continued

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(Total for Question 3 is 8 marks)

