5 (a) Show that $\sum_{r=1}^{n} (3r+5) = \frac{1}{2}n(3n+13)$

(3)

(b) Hence evaluate $\sum_{r=35}^{50} (3r + 5)$

(2)

Given that $\sum_{r=1}^{n} (3r + 5) = 385$

(c) find the value of n.

(3)

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