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

(2)

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

(3)

P 5 3 2 9 2 A 0 4 3 6

Question 2 continued

(Total for Question 2 is 5 marks)