

5 (a) (i) Find $\int \left(3 - x + \frac{1}{x^3} \right) dx$

(ii) Hence evaluate $\int_1^2 \left(3 - x + \frac{1}{x^3} \right) dx$ (4)

(b) (i) Find $\int 6 \sin 3x dx$

(ii) Hence evaluate $\int_{\frac{\pi}{9}}^{\frac{\pi}{6}} 6 \sin 3x dx$ (4)

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA



DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

Question 5 continued**(Total for Question 5 is 8 marks)**

P 5 3 3 9 1 A 0 1 1 3 6