3	(a) (i) Find $\int \left(1 + 3x - \frac{2}{x^2}\right) dx$	
	(ii) Hence show that $\int_{1}^{2} \left(1 + 3x - \frac{2}{x^2}\right) dx = 4\frac{1}{2}$	(4)
	(b) (i) Find $\int 3\sin 2x  dx$	
	(ii) Hence show that $\int_0^{\frac{\pi}{6}} 3\sin 2x  dx = \frac{3}{4}$	(4)

Question 3 continued		
	(Total for Question 3 is 8 marks)	

