2	Given that $y = 4x^2e^{2x}$	
	(a) find $\frac{dy}{dx}$	
		(3)
	(b) hence show that $x \frac{dy}{dx} = 2y(1+x)$	(2)

Question 2 continued			
	(Total for Question 2 is 5 montes)		
	(Total for Question 2 is 5 marks)		

