5 Differentiate with respect to x

(a) $e^{4x}(6x + 2)^{\frac{3}{2}}$

Give your answer in the form $e^{4x}\left(\sqrt{6x + 2}\right)(Ax + B)$ where A and B are integers.

(5)

(b) $\dfrac{\sin 3x}{(2x - 4)^3}$

(3)

Question 5 continued

(Total for Question 5 is 8 marks)