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Question 3

i) $\int (x^8 + 2x^2)(3x^2 + x) dx$

$$3x^{16} + 2x^8 + 6x^4 + 2x^2$$

$$\frac{3x^{17}}{17} + \frac{2x^9}{9} + \frac{6x^5}{5} + \frac{2x^3}{3} + C$$