

4 (a) Show that the first three terms, in descending powers of x , of the expansion of

$$(2x - 3)^{10}$$

are given by

$$1024x^{10} + px^9 + qx^8$$

where p and q are integers to be found.

[3 marks]

4 (b) Find the constant term in the expansion of

$$\left(2x - \frac{3}{x}\right)^{10}$$

[2 marks]