**2 (a)** Find the first three terms in the expansion, in ascending powers of $x$, of $(2 + 3x)^4$. [2]

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**(b)** Find the first three terms in the expansion, in ascending powers of $x$, of $(1 - 2x)^5$. [2]

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**(c)** Hence find the coefficient of $x^2$ in the expansion of $(2 + 3x)^4(1 - 2x)^5$. [2]

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