

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

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- (b)** Find the first three terms in the expansion, in ascending powers of  $x$ , of  $(1 - 2x)^6$ . [2]

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- (c) Hence find the coefficient of  $x^2$  in the expansion of  $(1+x)^5(1-2x)^6$ . [2]

[illegible]