

5 (i) Simplify $(x+4)(5x-3) - 3(x-2)^2$. $(x-2)(x-2)$ [3]

(ii) The coefficient of x^2 in the expansion of

$$(x+3)(x+k)(2x-5)$$

is -3 . Find the value of the constant k .



[3]

$$\begin{aligned} \text{i)} \quad & 5x^2 - 3x + 20x - 12 \\ & - 3(x^2 - 4x + 4) \end{aligned}$$

$$\begin{aligned} &= \underline{5x^2 + 17x - 12} - 3x^2 + \underline{12x} - \underline{12} \\ &= \underline{\underline{2x^2 + 29x - 24}} \end{aligned}$$

$$\text{ii)} \quad -5 + 2k$$

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