

Marks are indicated in brackets after each question number

2014 Paper 1 Question 2, (2)

$$\begin{aligned}(2x - 5)(3x + 1) &= 6x^2 - 15x + 2x - 5 \\ &= 6x^2 - 13x - 5\end{aligned}$$

2015 Paper 1 Question 4, (3)

$$\begin{aligned}(x - 4)(x^2 + x - 2) \\ &= x^3 + x^2 - 2x - 4x^2 - 4x + 8 \\ &= x^3 - 3x^2 - 6x + 8\end{aligned}$$

2016 Paper 2 Question 4, (2)

$$\begin{aligned}3x^2 - 48 \\ &= 3(x^2 - 16) \\ &= 3(x - 4)(x + 4)\end{aligned}$$

2017 Paper 1 Question 4, (3)

$$\begin{aligned}(2x + 3)(x^2 - 4x + 1) \\ &= 2x^3 - 8x^2 + 2x + 3x^2 - 12x + 3 \\ &= 2x^3 - 5x^2 - 10x + 3\end{aligned}$$

2017 Paper 1 Question 8, (1) (3)

$$\begin{aligned} \text{a) } 4x^2 - 25 &= (2x)^2 - 5^2 \\ &= (2x - 5)(2x + 5) \end{aligned}$$

$$\begin{aligned} \text{b) } \frac{4x^2 - 25}{2x^2 - x - 10} &= \frac{(2x - 5)(2x + 5)}{(2x - 5)(x + 2)} \\ &= \frac{2x + 5}{x + 2} \end{aligned}$$