



Exercise 2G

Question 16:

$$\begin{aligned} &9x^2 + 18x + 8 \\ &= 9x^2 + 12x + 6x + 8 \\ &= 3x(3x + 4) + 2(3x + 4) \\ &= (3x + 4)(3x + 2). \end{aligned}$$

Question 17:

$$\begin{aligned} &14x^2 + 9x + 1 \\ &= 14x^2 + 7x + 2x + 1 \\ &= 7x(2x + 1) + (2x + 1) \\ &= (7x + 1)(2x + 1). \end{aligned}$$

Question 18:

$$\begin{aligned} &2x^2 + 3x - 90 \\ &= 2x^2 - 12x + 15x - 90 \\ &= 2x(x - 6) + 15(x - 6) \\ &= (x - 6)(2x + 15). \end{aligned}$$

Question 19:

$$\begin{aligned} &2x^2 + 11x - 21 \\ &= 2x^2 + 14x - 3x - 21 \\ &= 2x(x + 7) - 3(x + 7) \\ &= (x + 7)(2x - 3). \end{aligned}$$

Question 20:

$$\begin{aligned} &3x^2 - 14x + 8 \\ &= 3x^2 - 12x - 2x + 8 \\ &= 3x(x - 4) - 2(x - 4) \\ &= (x - 4)(3x - 2). \end{aligned}$$

***** END *****