



Exercise 2G

Question 31:

$$\begin{aligned}15x^2 - x - 28 \\&= 15x^2 + 20x - 21x - 28 \\&= 5x(3x + 4) - 7(3x + 4) \\&= (3x + 4)(5x - 7).\end{aligned}$$

Question 32:

$$\begin{aligned}8a^2 - 27ab + 9b^2 \\&= 8a^2 - 24ab - 3ab + 9b^2 \\&= 8a(a - 3b) - 3b(a - 3b) \\&= (a - 3b)(8a - 3b).\end{aligned}$$

Question 33:

$$\begin{aligned}5x^2 + 33xy - 14y^2 \\&= 5x^2 + 35xy - 2xy - 14y^2 \\&= 5x(x + 7y) - 2y(x + 7y) \\&= (x + 7y)(5x - 2y).\end{aligned}$$

Question 34:

$$\begin{aligned}3x^3 - x^2 - 10x \\&= x(3x^2 - x - 10) \\&= x[3x^2 - 6x + 5x - 10] \\&= x[3x(x - 2) + 5(x - 2)] \\&= x(x - 2)(3x + 5).\end{aligned}$$

***** END *****