



### Exercise 2G

Question 1:

$$\begin{aligned}x^2 + 11x + 30 \\&= x^2 + 6x + 5x + 30 \\&= x(x + 6) + 5(x + 6) \\&= (x + 6)(x + 5).\end{aligned}$$

Question 2:

$$\begin{aligned}x^2 + 18x + 32 \\&= x^2 + 16x + 2x + 32 \\&= x(x + 16) + 2(x + 16) \\&= (x + 16)(x + 2).\end{aligned}$$

Question 3:

$$\begin{aligned}x^2 + 7x - 18 \\&= x^2 + 9x - 2x - 18 \\&= x(x + 9) - 2(x + 9) \\&= (x + 9)(x - 2).\end{aligned}$$

Question 4:

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

Question 5:

$$\begin{aligned}y^2 - 4y + 3 \\&= y^2 - 3y - y + 3 \\&= y(y - 3) - 1(y - 3) \\&= (y - 3)(y - 1).\end{aligned}$$

\*\*\*\*\* END \*\*\*\*\*