



## Exercise 2E

Question 1:

$$9x^2 + 12xy = 3x (3x + 4y)$$

Question 2:

$$18x^2y - 24xyz = 6xy (3x - 4z)$$

Question 3:

$$27a^3b^3 - 45a^4b^2 = 9a^3b^2 (3b - 5a)$$

Question 4:

$$2a (x + y) - 3b (x + y) = (x + y) (2a - 3b)$$

Question 5:

$$\begin{aligned} & 2x (p^2 + q^2) + 4y (p^2 + q^2) \\ &= (2x + 4y) (p^2 + q^2) \\ &= 2(x + 2y) (p^2 + q^2) \end{aligned}$$

Question 6:

$$\begin{aligned} & x (a - 5) + y (5 - a) \\ &= x (a - 5) + y (-1) (a - 5) \\ &= (x - y) (a - 5) \end{aligned}$$

Question 7:

$$\begin{aligned} & 4 (a + b) - 6 (a + b)^2 \\ &= (a + b) [4 - 6 (a + b)] \\ &= 2 (a + b) (2 - 3a - 3b) \\ &= 2 (a + b) (2 - 3a - 3b) \end{aligned}$$

Question 8:

$$\begin{aligned} & 8 (3a - 2b)^2 - 10 (3a - 2b) \\ &= (3a - 2b) [8(3a - 2b) - 10] \\ &= (3a - 2b) 2[4 (3a - 2b) - 5] \\ &= 2 (3a - 2b) (12a - 8b - 5) \end{aligned}$$

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