



## Exercise 2E

Question 14:

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

Question 15:

$$\begin{aligned} & px + pq - 5q - 5x \\ &= p(x + q) - 5(q + x) \\ &= (x + q)(p - 5) \end{aligned}$$

Question 16:

$$\begin{aligned} & x^2 - xy + y - x \\ &= x(x - y) - 1(x - y) \\ &= (x - y)(x - 1) \end{aligned}$$

Question 17:

$$\begin{aligned} & (3a - 1)^2 - 6a + 2 \\ &= (3a - 1)^2 - 2(3a - 1) \\ &= (3a - 1)[(3a - 1) - 2] \\ &= (3a - 1)(3a - 3) \\ &= 3(3a - 1)(a - 1) \end{aligned}$$

Question 18:

$$\begin{aligned} & (2x - 3)^2 - 8x + 12 \\ &= (2x - 3)^2 - 4(2x - 3) \\ &= (2x - 3)(2x - 3 - 4) \\ &= (2x - 3)(2x - 7) \end{aligned}$$

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