

Exercise 2E

Question 14:

$$x^{3} - 2x^{2}y + 3xy^{2} - 6y^{3}$$

$$= x^{2}(x - 2y) + 3y^{2}(x - 2y)$$

$$= (x - 2y)(x^{2} + 3y^{2})$$

Question 15:

$$px + pq - 5q - 5x$$

= $p(x + q) - 5(q + x)$
= $(x + q)(p - 5)$

Question 16:

$$x^{2}$$
 - xy + y - x
= x (x - y) - 1 (x - y)
= (x - y) (x - 1)

Question 17:

$$(3a - 1)^{2} - 6a + 2$$

$$= (3a - 1)^{2} - 2 (3a - 1)$$

$$= (3a - 1) [(3a - 1) - 2]$$

$$= (3a - 1) (3a - 3)$$

$$= 3(3a - 1) (a - 1)$$

Question 18:

$$(2x - 3)^{2} - 8x + 12$$

$$= (2x - 3)^{2} - 4(2x - 3)$$

$$= (2x - 3)(2x - 3 - 4)$$

$$= (2x - 3)(2x - 7)$$

********** END ********