

Exercise 2G

Question 11:

$$6 - x - x^2$$

$$= 6 + 2x - 3x - x^2$$

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

$$= (3 + x) (2 - x).$$

Question 12:

$$7x^2 + 49x + 84$$

$$= 7(x^2 + 7x + 12)$$

$$= 7 [x^2 + 4x + 3x + 12]$$

$$= 7 [x (x + 4) + 3 (x + 4)]$$

$$= 7 (x + 4) (x + 3).$$

Question 13:

$$m^2 + 17mn - 84n^2$$

$$= m^2 + 21mn - 4mn - 84n^2$$

$$= m (m + 21n) - 4n (m + 21n)$$

$$= (m + 21n) (m - 4n).$$

Question 14:

$$5x^2 + 16x + 3$$

$$=5x^2 + 15x + x + 3$$

$$= 5x(x + 3) + 1(x + 3)$$

$$= (5x + 1) (x + 3).$$

Question 15:

$$6x^2 + 17x + 12$$

$$= 6x^2 + 9x + 8x + 12$$

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

$$= (2x + 3) (3x + 4).$$

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