

Exercise 2G

Question 16:

$$9x^2 + 18x + 8$$

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

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

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

Question 17:

$$14x^2 + 9x + 1$$

$$= 14x^2 + 7x + 2x + 1$$

$$= 7x (2x + 1) + (2x + 1)$$

$$= (7x + 1) (2x + 1).$$

Question 18:

$$2x^2 + 3x - 90$$

$$= 2x^2 - 12x + 15x - 90$$

$$= 2x (x - 6) + 15 (x - 6)$$

$$= (x - 6) (2x + 15).$$

Question 19:

$$2x^2 + 11x - 21$$

$$= 2x^2 + 14x - 3x - 21$$

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

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

Question 20:

$$3x^2 - 14x + 8$$

$$= 3x^2 - 12x - 2x + 8$$

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

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

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