

Exercise 8.1

Factorise each of the following by splitting the middle term and also by using factor theorem.

1. $4x^2 + 8x + 3$

4. $6x^2 + 5x - 6$

7. $12x^2 - 23x + 10$

2. $10x^2 + 3x - 4$

5. $2x^2 - x - 21$

8. $4x^2 + x - 18$

3. $7x^2 - 25x - 12$

6. $24x^2 - 65x + 21$

Answers

1. $(2x + 3)(2x + 1)$

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

7. $(3x - 2)(4x - 5)$

2. $(5x + 4)(2x - 1)$

5. $(2x - 7)(x + 3)$

8. $(x - 2)(4x + 9)$

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

6. $(8x - 3)(3x - 7)$

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