

### Exercise 5(A)

1. Find which of the following equations are quadratic:

(i)  $(3x - 1)^2 = 5(x + 8)$

(ii)  $5x^2 - 8x = -3(7 - 2x)$

(iii)  $(x - 4)(3x + 1) = (3x - 1)(x + 2)$

(iv)  $x^2 + 5x - 5 = (x - 3)^2$

(v)  $7x^3 - 2x^2 + 10 = (2x - 5)^2$

(vi)  $(x - 1)^2 + (x + 2)^2 + 3(x + 1) = 0$

Solution:

(i)  $(3x - 1)^2 = 5(x + 8)$

$$\Rightarrow (9x^2 - 6x + 1) = 5x + 40$$

$$\Rightarrow 9x^2 - 11x - 39 = 0; \text{ which is of the general form } ax^2 + bx + c = 0.$$

Thus, the given equation is a quadratic equation.

(ii)  $5x^2 - 8x = -3(7 - 2x)$

$$\Rightarrow 5x^2 - 8x = 6x - 21$$

$$\Rightarrow 5x^2 - 14x + 21 = 0; \text{ which is of the general form } ax^2 + bx + c = 0.$$

Thus, the given equation is a quadratic equation.

(iii)  $(x - 4)(3x + 1) = (3x - 1)(x + 2)$

$$\Rightarrow 3x^2 + x - 12x - 4 = 3x^2 + 6x - x - 2$$

$$\Rightarrow 16x + 2 = 0; \text{ which is not of the general form } ax^2 + bx + c = 0. \text{ And it's a linear equation.}$$

Thus, the given equation is not a quadratic equation.

(iv)  $x^2 + 5x - 5 = (x - 3)^2$

$$\Rightarrow x^2 + 5x - 5 = x^2 - 6x + 9$$

$$\Rightarrow 11x - 14 = 0; \text{ which is not of the general form } ax^2 + bx + c = 0. \text{ And it's a linear equation.}$$

Thus, the given equation is not a quadratic equation.

(v)  $7x^3 - 2x^2 + 10 = (2x - 5)^2$

$$\Rightarrow 7x^3 - 2x^2 + 10 = 4x^2 - 20x + 25$$

$$\Rightarrow 7x^3 - 6x^2 + 20x - 15 = 0; \text{ which is not of the general form } ax^2 + bx + c = 0. \text{ And it's a cubic equation.}$$

Thus, the given equation is not a quadratic equation.

(vi)  $(x - 1)^2 + (x + 2)^2 + 3(x + 1) = 0$

$$\Rightarrow x^2 - 2x + 1 + x^2 + 4x + 4 + 3x + 3 = 0$$

$$\Rightarrow 2x^2 + 5x + 8 = 0; \text{ which is of the general form } ax^2 + bx + c = 0.$$

Thus, the given equation is a quadratic equation.

2. (i) Is  $x = 5$  a solution of the quadratic equation  $x^2 - 2x - 15 = 0$ ?

Solution:

Given quadratic equation,  $x^2 - 2x - 15 = 0$

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**Julia Schneider**



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