

## Chapter- 4: Quadratic Equations

### Exercise 4.1 (Page 73 of Grade 10 NCERT)

**Q1.** Check whether the followings are quadratic equations:

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

ii)  $(x^2 - 2x) = (-2)(3-x)$

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

iv)  $(x-3)(2x+1) = x(x+5)$

v)  $(2x-1)(x-3) = (x+5)(x-1)$

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

vii)  $(x+2)^3 = 2x(x^2 - 1)$

viii)  $x^2 - 4x - x + 1 = (x-2)^2$

**Difficulty Level:** Easy

**Reasoning:**

Standard form of a quadratic equation is  $ax^2 + bx + c = 0$  where  $a \neq 0$  and degree of quadratic equation is 2.

**What is the unknown?**

To check whether the given equation is a quadratic equation.

**Known:**

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

**Solution:**

$$\text{Since } (a+b)^2 = a^2 + b^2 + 2ab$$

$$x^2 + 2x + 1 = (2x - 6)$$

$$x^2 + 2x + 1 - (2x - 6) = 0$$

$$x^2 + 2x + 1 - 2x + 6$$

$$x^2 + 7 = 0$$

Here, the degree of  $x^2 + 7 = 0$  is 2.

$\therefore$  It is a quadratic equation.

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**Ralph Haeger Toliver**



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