

## Chapter- 4: Quadratic Equations

### Exercise 4.3 (Page 87 of Grade 10 NCERT)

**Q1.** Find the roots of the following quadratic equations, if they exist, by the method of completing the square.

i)  $2x^2 - 7x + 3 = 0$

ii)  $2x^2 + x - 4 = 0$

iii)  $4x^2 + 4\sqrt{3}x + 3 = 0$

iv)  $2x^2 + x + 4 = 0$

**Difficulty Level: Medium**

**What is the unknown?**

Roots of the quadratic equation.

**Reasoning:**

Steps required to solve a quadratic equation by applying the 'completing the square' method are given below:

Let the given quadratic equation be:  $ax^2 + bx + c = 0$

- (i) Divide all the terms by  $a$

$$\frac{ax^2}{a} + \frac{bx}{a} + \frac{c}{a} = 0$$

$$x^2 + \frac{bx}{a} + c = 0$$

- (ii) Move the constant term  $\frac{c}{a}$  to the right side of the equation:

$$x^2 + \frac{b}{a}x = -\frac{c}{a}$$

- (iii) Complete the square on the left side of the equation by adding  $\frac{b^2}{4a^2}$ . Balance this by adding the same value to the right side of the equation.

i)

**Solution:**

Divide  $2x^2 - 7x + 3 = 0$  by 2:

$$x^2 - \frac{7}{2}x + \frac{3}{2} = 0$$

$$x^2 - \frac{7}{2}x = -\frac{3}{2}$$

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