

## Exercise 4.4

### Question 1:

Find the nature of the roots of the following quadratic equations.

If the real roots exist, find them;

(I)  $2x^2 - 3x + 5 = 0$

(II)  $3x^2 - 4\sqrt{3}x + 4 = 0$

(III)  $2x^2 - 6x + 3 = 0$

Answer:

We know that for a quadratic equation  $ax^2 + bx + c = 0$ , discriminant is  $b^2 - 4ac$ .

(A) If  $b^2 - 4ac > 0 \rightarrow$  two distinct real roots

(B) If  $b^2 - 4ac = 0 \rightarrow$  two equal real roots

(C) If  $b^2 - 4ac < 0 \rightarrow$  no real roots

(I)  $2x^2 - 3x + 5 = 0$

Comparing this equation with  $ax^2 + bx + c = 0$ , we obtain

$$a = 2, b = -3, c = 5$$

$$\text{Discriminant} = b^2 - 4ac = (-3)^2 - 4(2)(5) = 9 - 40$$

$$= -31$$

As  $b^2 - 4ac < 0$ ,

Therefore, no real root is possible for the given equation.

(II)  $3x^2 - 4\sqrt{3}x + 4 = 0$

Comparing this equation with  $ax^2 + bx + c = 0$ , we obtain

$$a = 3, b = -4\sqrt{3}, c = 4$$

# Chapter Quadratic Equation Class 10 Ncert

**Raffaela Di Napoli**



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