

Unit 2

Theory of Quadratic Equations

EXERCISE 2.1

1. Find the discriminant of the following given quadratic equations.

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

Solution: $2x^2 + 3x - 1 = 0$

Here $a = 2, b = 3, c = -1$

$$\begin{aligned} \text{Disc} &= b^2 - 4ac \\ &= (3)^2 - 4(2)(-1) \\ &= 9 + 8 = 17 \end{aligned}$$

(ii) $6x^2 - 8x + 3 = 0$

Solution: $6x^2 - 8x + 3 = 0$

Here $a = 6, b = -8, c = 3$

$$\begin{aligned} \text{Disc} &= b^2 - 4ac \\ &= (-8)^2 - 4(6)(3) \\ &= 64 - 72 = -8 \end{aligned}$$

(iii) $9x^2 - 30x + 25 = 0$

Solution: $9x^2 - 30x + 25 = 0$

Here $a = 9, b = -30, c = 25$

$$\begin{aligned} \text{Disc} &= b^2 - 4ac \\ &= (-30)^2 - 4(9)(25) \\ &= 900 - 900 = 0 \end{aligned}$$

(iv) $4x^2 - 7x - 2 = 0$

Solution: $4x^2 - 7x - 2 = 0$

Here $a = 4, b = -7, c = -2$

$$\begin{aligned} \text{Disc} &= b^2 - 4ac \\ &= (-7)^2 - 4(4)(-2) \\ &= 49 + 32 = 81 \end{aligned}$$

2. Find the nature of roots of the following given quadratic equations and verify the result by solving the equation:

(i) $x^2 - 23x + 120 = 0$

Solution: $x^2 - 23x + 120 = 0$

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Roman Wölfel



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