

10th Maths - Chapter 4

This is Problem-1(iii) from Exercise 4.2

$$(\sqrt{2}x^2 + 7x + 5\sqrt{2}) = 0$$

Solution:

(1)

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a} \quad (2)$$

(3)

$$x = \frac{-7 \pm \sqrt{-7^2 - 4 \times \sqrt{2} \times 5\sqrt{2}}}{2 \times \sqrt{2}} \quad (4)$$

(5)

$$x = \frac{-7 + \sqrt{49 - 40}}{2\sqrt{2}} \quad (6)$$

(7)

$$x = \frac{-7 + \sqrt{9}}{2\sqrt{2}} \quad (8)$$

(9)

$$x = \frac{-4}{2\sqrt{2}} \quad (10)$$

(11)

$$x = \frac{-4 \times 2\sqrt{2}}{2\sqrt{2} \times 2\sqrt{2}} \quad (12)$$

(13)

$$x = \frac{-8\sqrt{2}}{8} \quad (14)$$

(15)

$$x = -\sqrt{2} \quad (16)$$

(17)

or

(18)

$$x = \frac{-7 - \sqrt{49 - 40}}{2\sqrt{2}} \quad (19)$$

(20)

$$x = \frac{-7 - \sqrt{9}}{2\sqrt{2}} \quad (21)$$

(22)

$$x = \frac{-10}{2\sqrt{2}} \quad (23)$$

(24)

$$x = \frac{-10 \times 2\sqrt{2}}{2\sqrt{2} \times 2\sqrt{2}} \quad (25)$$

(26)

$$x = \frac{-20\sqrt{2}}{8} \quad (27)$$

(28)

$$x = \frac{-5}{\sqrt{2}} \quad (29)$$