

10th Maths - Chapter 4

This is Problem-1(v) from Exercise 4.2

1. Find the roots of the quadratic equation

$$(100)x^2 - 20x + 1 = 0 \quad (1)$$

(2)

Solution: :

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a} \quad (3)$$

$$x = \frac{20 \pm \sqrt{-20^2 - 4 \times 100 \times 1}}{2 \times 100} \quad (4)$$

$$x = \frac{20 \pm \sqrt{400 - 400}}{200} \quad (5)$$

$$x = \frac{20 \pm \sqrt{0}}{200} \quad (6)$$

$$x = \frac{20}{200} \quad (7)$$

$$x = \frac{1}{10} \quad (8)$$