

10th Maths - Chapter 4

This is Problem-1(v) from Exercise 4.2
find the roots of the quadratic equation

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

$$\text{Solution: } \quad (2)$$

$$(3)$$

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

$$(5)$$

$$x = \frac{20 \pm \sqrt{-20^2 - 4 \times 100 \times 1}}{2 \times 100} \quad (6)$$

$$(7)$$

$$x = \frac{20 + \sqrt{400 - 400}}{200} \quad (8)$$

$$(9)$$

$$x = \frac{20 + \sqrt{0}}{200} \quad (10)$$

$$(11)$$

$$x = \frac{20}{200} \quad (12)$$

$$(13)$$

$$x = \frac{1}{10} \quad (14)$$

$$(15)$$