10^{th} Maths - Chapter 4

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

$$100x^2 - 20x + 1 = 0$$

Solution: :

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

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

$$x = \frac{20 + \sqrt{400 - 400}}{200}$$

$$x = \frac{20 + \sqrt{0}}{200}$$

$$x = \frac{20}{200}$$

$$x = \frac{1}{10}$$