10^{th} Maths - Chapter 4

This is Problem-1(v) from Exercise 4.2
find the roots of the quadratic equation
$\left(100x^2 - 20x + 1\right) = 0$

Solution:

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

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

$\left(x = \frac{20 + \sqrt{400 - 400}}{200}\right)$

$\left(x = \frac{20 + \sqrt{0}}{200}\right)$

$\left(x = \frac{20}{200}\right)$

$\left(x = \frac{1}{10}\right)$