10^{th} Maths - Chapter 4

This is Problem-1(v) from Exercise 4.2 $(100x^2 - 20x + 1) = 0$

Solution:

$$\begin{pmatrix}
x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a} \\
x = \frac{20 \pm \sqrt{-20^2 - 4 \times 100 \times 1}}{2 \times 100}
\end{pmatrix}$$

$$\begin{pmatrix}
x = \frac{20 + \sqrt{400 - 400}}{200} \\
x = \frac{20 + \sqrt{0}}{200}
\end{pmatrix}$$

$$\begin{pmatrix}
x = \frac{20 + \sqrt{0}}{200} \\
x = \frac{20}{10}
\end{pmatrix}$$

$$\begin{pmatrix}
x = \frac{20}{10}
\end{pmatrix}$$

$$\begin{pmatrix}
x = \frac{1}{10}
\end{pmatrix}$$