10^{th} Maths - Chapter 4

This is Problem-1(iv) from Exercise 4.2 $\left(16x^2 - 8x + 1\right) = 0$

Solution:

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

$\left(x = \frac{8 \pm \sqrt{8^2 - 4 \times 16 \times 1}}{2 \times 16}\right)$

$\left(x = \frac{8 + \sqrt{64 - 64}}{32}\right)$

$\left(x = \frac{8 + \sqrt{0}}{32}\right)$

$\left(x = \frac{8}{32}\right)$

$\left(x = \frac{1}{4}\right)$