10^{th} Maths - Chapter 4

This is Problem-1(iv) from Exercise 4.2

1.
$$16x^2 - 8x + 1 = 0$$
 Solution:

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a} \tag{1}$$

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

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

$$x = \frac{8 \pm \sqrt{64 - 64}}{32}$$
(2)
$$x = \frac{8 \pm \sqrt{64 - 64}}{32}$$
(3)

$$x = \frac{8 \pm \sqrt{64 - 64}}{32} \tag{3}$$

$$x = \frac{8 \pm \sqrt{0}}{32}$$

$$x = \frac{8}{32}$$

$$x = \frac{1}{4}$$
(4)
(5)

$$x = \frac{8}{32} \tag{5}$$

$$x = \frac{1}{4} \tag{6}$$