10^{th} Maths - Chapter 4

This is Problem-1(iv) from Exercise 4.2

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

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

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

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

$$x = \frac{8 \pm \sqrt{0}}{32} \tag{4}$$

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

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