

Ncert Solutions Chapter 4 Quadratic Equations Exercise 4.2 Question 2

Question 2. Solve the problems given in Example 1.

The problems given in example 1 are

$$(i) x^2 - 45x + 324 = 0$$

$$(ii) x^2 - 55x + 750 = 0$$

Solution (i)

$$x^2 - 45x + 324 = 0$$

$$\Rightarrow x^2 - 36x - 9x + 324 = 0$$

$$\Rightarrow x(x - 36) - 9(x - 36) = 0$$

$$\Rightarrow (x - 36)(x - 9) = 0$$

$$\Rightarrow x = 9, 36$$

Solution (ii)

$$x^2 - 55x + 750 = 0$$

$$\Rightarrow x^2 - 25x - 30x + 750 = 0$$

$$\Rightarrow x(x - 25) - 30(x - 25) = 0$$

$$\Rightarrow (x - 25)(x - 30) = 0$$

$$\Rightarrow x = 30, 25$$

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