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)

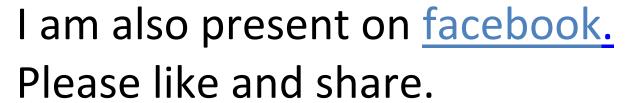
$$x^2 - 55x + 750 = 0$$

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

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

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

$$\Rightarrow x = 30,25$$



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