

B.80 - Reduções:

$$\begin{cases} x^2 - 15x + 56 = 1 \\ y - x = 5 \end{cases} \Rightarrow y = 5 + x$$

$$(5+x)^2 - 15 \cdot (5+x) + 56 = 1$$

$$(5+x)^2 - 15 \cdot (5+x) + 56 = 0$$

$$5^2 + 10x + x^2 - 75 - 15x + 56 = 0$$

$$25 - 5x + x^2 - 75 + 56 = 0$$

$$x^2 - 5x + 6 = 0$$

$$\Delta = (-5)^2 - 4 \cdot 1 \cdot 6$$

$$\Delta = 25 - 24$$

$$\Delta = 1 \quad \Delta > 0 \quad \sqrt{\Delta} = 1$$

$$x = 5 \pm 1$$

$$x_1 = 3$$

$$x_2 = 2$$

$$S = \{2, 3\}$$