

NCERT Maths Solutions by Dev Anoop (Bathinda)

$$1 \text{ (v)} \quad t^2 - 15$$

$$= t^2 - (\sqrt{15})^2$$

$$= (t - \sqrt{15})(t + \sqrt{15})$$

For finding zeros

$$t - \sqrt{15} = 0, \quad t + \sqrt{15} = 0$$

$$\Rightarrow t = \sqrt{15}, \quad t = -\sqrt{15}$$

$$\text{Sum of zeros} = \sqrt{15} + (-\sqrt{15})$$

$$= \frac{0}{1}$$

$$= \frac{-b}{a} \quad [\because b = 0, a = 1]$$

$$\text{Product of zeros} = \sqrt{15}(-\sqrt{15})$$

$$= -\frac{15}{1}$$

$$= \frac{c}{a} \quad (\because c = -15, a = 1)$$