

$$\begin{aligned} 1 \text{ (ii)} \quad & 4s^2 - 4s + 1 \\ &= 4s^2 - 2s - 2s + 1 \\ &= 2s(2s-1) - 1(2s-1) \\ &= (2s-1)(2s-1) \end{aligned}$$

For finding zeros

$$2s-1=0, \quad 2s-1=0$$

$$\Rightarrow s = \frac{1}{2}, \quad s = \frac{1}{2}$$

$$\begin{aligned} \text{Sum of zeros} &= \frac{1}{2} + \frac{1}{2} \\ &= \frac{2}{2} + \frac{2}{2} \\ &= \frac{4}{2} \\ &= -\frac{(-4)}{4} \\ &= -\frac{b}{a} \quad [\because b = -4] \end{aligned}$$

$$\begin{aligned} \text{Product of zeros} &= \frac{1}{2} \times \frac{1}{2} \\ &= \frac{1}{4} \\ &= \frac{c}{a} \quad [\because c = 1] \end{aligned}$$