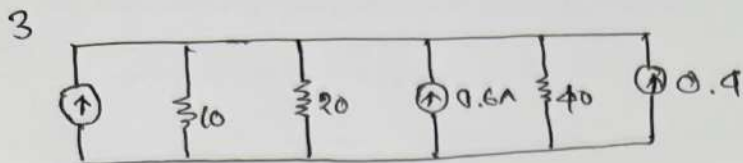


②



Source we get

$$I_2 = \frac{12}{20} = 0.6 \text{ A}$$

$$I_3 = \frac{16}{40} = 0.4 \text{ A}$$

$$\begin{aligned} \therefore \text{total current } I &= I_1 + I_2 + I_3 \\ &= 3 + 0.6 + 0.4 \\ &= 4 \text{ A} \end{aligned}$$

$\therefore$  equivalent resistance

$$\begin{aligned} \frac{1}{R_{eq}} &= \frac{1}{R_1} + \frac{1}{R_2} + \frac{1}{R_3} \\ &= \frac{1}{10} + \frac{1}{20} + \frac{1}{40} \\ &= \frac{7}{40} \end{aligned}$$

$$\Rightarrow R_e = 5.714 \Omega$$

$\therefore$  after transforming all the source for one



Ans: