a) I
$$T$$
 $V_{n_{\perp}} = I_{T} \times P_{1}$
 $Solv = I_{T} \times Solv$
 $Solv = I_{T} \times Solv$

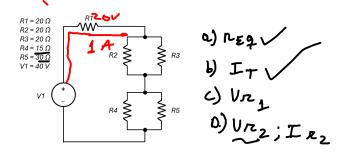
$$V_{R_3} = I_T \times R_3$$

$$2SV = 0, 1A \times R_3$$

$$\frac{2SV}{0,1A} = R_3$$

$$2S \circ R = R_3$$

 $T_{T} = \frac{V_{1}}{n_{T}} = \frac{150V}{150V} = \frac{1s}{150} = \frac{0.14}{1}$

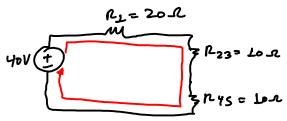


$$\Omega_2//\Omega_3 = \Omega_{23} = \frac{1}{20} + \frac{1}{20} = \frac{2}{20} = \frac{1}{10}$$

$$\left(\frac{1}{10}\right)^{-1} = \Omega_{23} = \boxed{100}$$

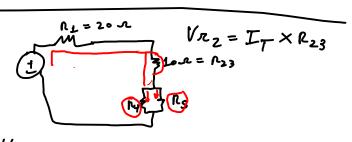
$$\Omega_4 // \Omega_S = \frac{1^{12} + 1}{15 \cdot 2^{2} \cdot 30} = \frac{2}{50} + \frac{1}{50} = \frac{3}{50} = \frac{1}{10}$$

$$\left(\frac{1}{10}\right)^{-1} = \Omega_{4S} = 10\Omega$$



$$R_1 \approx R_{23} \approx R_{4S} = 40 \text{ s. = } R_7 = R_{Eq}$$

$$R_1 \approx R_{23} \approx R_{4S} = 40 \text{ s. } R_{Eq} = 40 \text{ s. } R_{Eq} = 40 \text{ s. } R_{Eq} = 14$$



$$I_{R_2} = \frac{V_{R_2}}{R_2} = \frac{10V}{20R} = 0,54$$