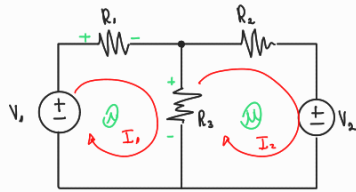


Circuito irreducible:



$$\textcircled{a} V_1 = V_{R1} + V_{R3} \quad \textcircled{b} V_2 = V_{R2} + V_{R3}$$

$$\textcircled{a} V_1 = I_1 \cdot R_1 + (I_1 + I_2) R_3$$

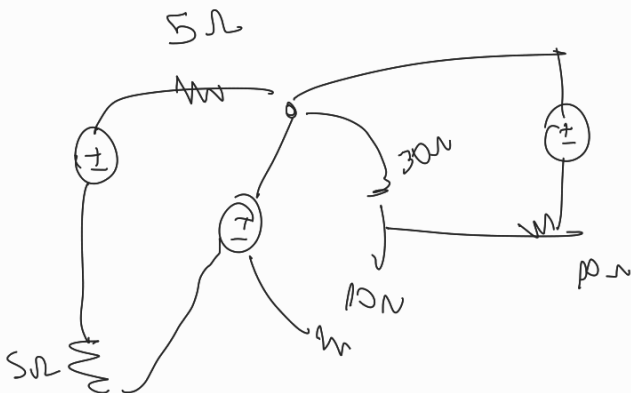
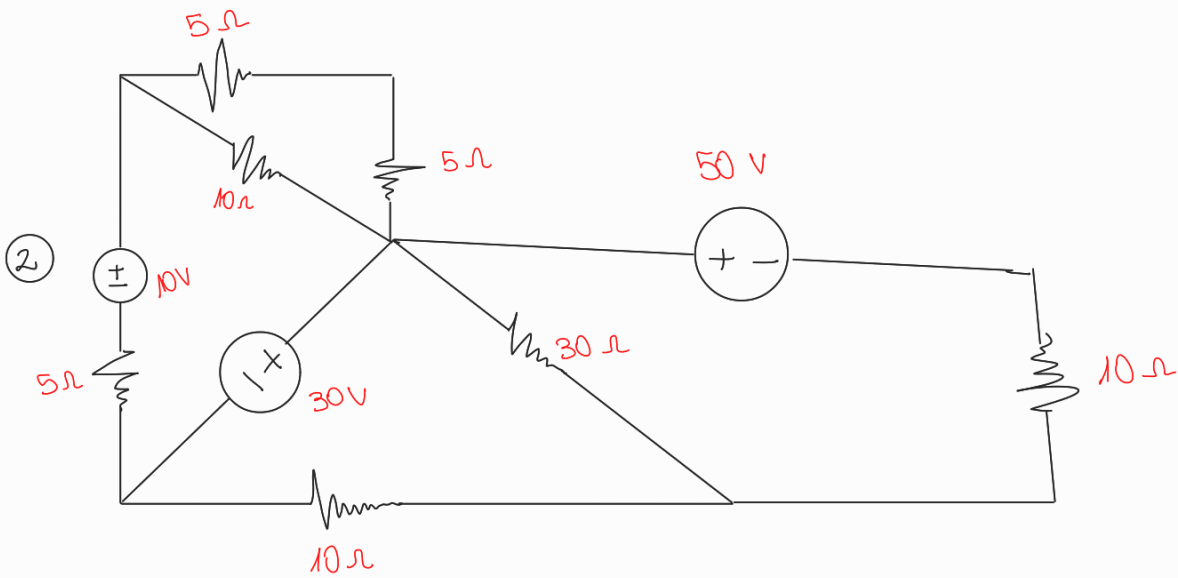
$$\textcircled{b} V_2 = I_2 \cdot R_2 + (I_2 + I_1) R_3$$

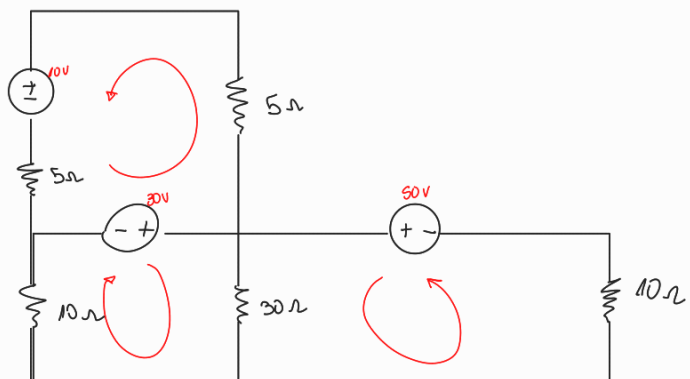
- $V_1 = 50 \text{ V}$
- $R_1 = 10 \Omega$
- $R_2 = 30 \Omega$
- $R_3 = 10 \Omega$
- $V_2 = 60 \text{ V}$

Resolver $I_1 = 2$

$I_2 = 1$

$$\textcircled{a} V_1 = I_1 (R_1 + R_3) + I_2 R_3 \quad \textcircled{b} V_2 = I_2 (R_2 + R_3) + I_1 R_3$$





$$\textcircled{i} \quad 30 - 10 = V_{v_1} + V_{v_2}$$

$$20V = I_1 (10)$$

$$I_1 = 2A$$

$$\textcircled{ii} \quad 30V = V_{R_{30}} + V_{R_{20}}$$

$$30V = I_2 \cdot 10\Omega + (I_2 + I_3) 30\Omega$$

$$\textcircled{iii} \quad 50 = (I_2 + I_3) 30\Omega + I_3 \cdot 10\Omega$$

