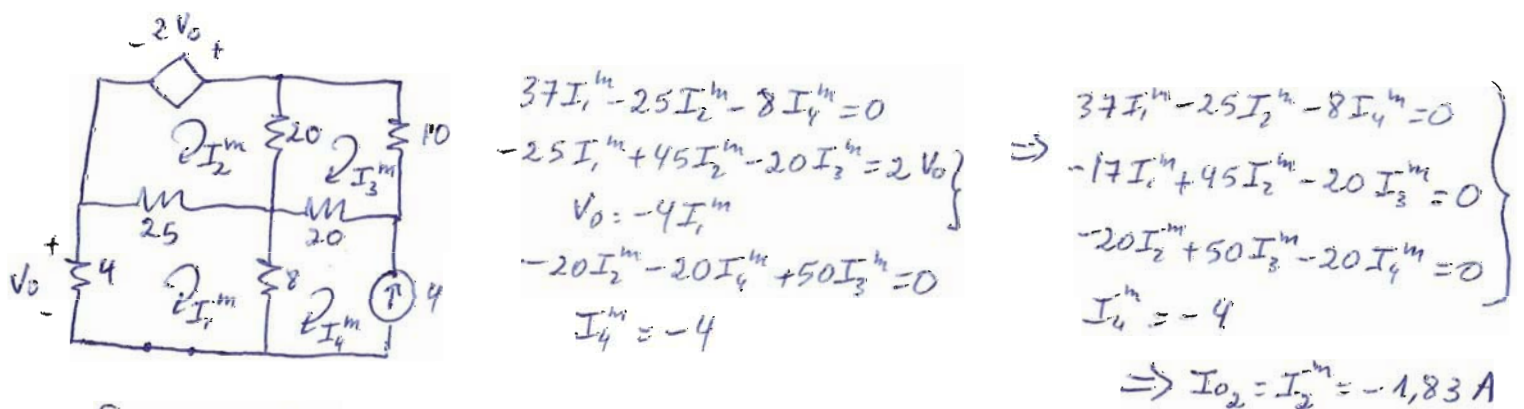
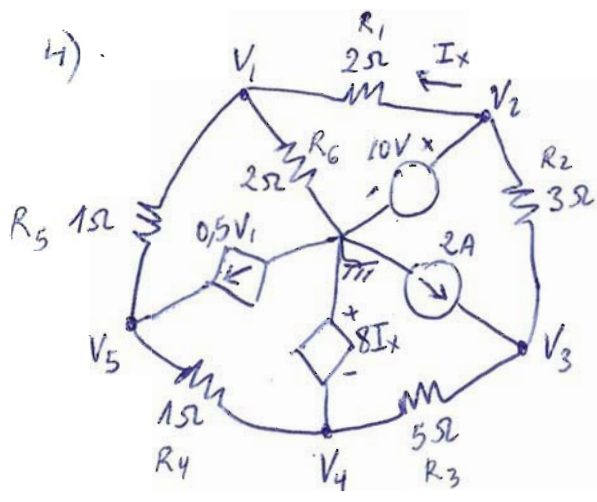


Apagando la fuente de voltaje:



Superposición: $I_0 = I_{0_1} + I_{0_2} = 0.43 - 1.83 = -1.4A$

4)



- ① $(1 + \frac{1}{2} + \frac{1}{2})V_1 - \frac{1}{2}V_2 - V_5 = 0$
- ② $V_2 = 10V$
- ③ $-\frac{1}{3}V_2 + (\frac{1}{3} + \frac{1}{5})V_3 - \frac{1}{5}V_4 = 2$
- ④ $\begin{cases} V_4 = -8I_x, I_x = \frac{V_2 - V_1}{2} \\ -4V_1 + 4V_2 + V_4 = 0 \end{cases}$
- ⑤ $\begin{cases} -V_1 - V_4 + 2V_5 = 0,5V_1 \\ -1,5V_1 - V_4 + 2V_5 = 0 \end{cases}$

Solución
 $V_1 = 20V$
 $V_2 = 10V$
 $V_3 = 25V$
 $V_4 = 40V$
 $V_5 = 35V$

$I_x = \frac{V_2 - V_1}{2} = \frac{10 - 20}{2} = -5A$

ABSORBIDA:

- $P_{R1} = I_x^2 \cdot 2 = 50W$
- $P_{R2} = \frac{(V_3 - V_2)^2}{3} = 75W$
- $P_{R3} = \frac{(V_4 - V_3)^2}{5} = 45W$
- $P_{R4} = \frac{(V_4 - V_5)^2}{1} = 25W$
- $P_{R5} = \frac{(V_5 - V_1)^2}{1} = 225W$
- $P_{R6} = \frac{V_1^2}{2} = 200W$
- $P_{V10} = 10 \left(\frac{V_3 - V_2}{3} + \frac{V_1 - V_2}{2} \right) = 10 \cdot 10 = 100W$

ENTREGADA:

- $P_{2A} = 2 \cdot V_3 = 50W$
- $P_{8Ix} = -40V \left(\frac{V_3 - V_4}{5} + \frac{V_5 - V_4}{1} \right)$
 $= -40 \left(-\frac{15}{5} + (-5) \right) = 320W$
- $P_{0,5V1} = V_5 \cdot 0,5V_1 = 35 \cdot 10 = 350W$
- TOTAL: 720W

TOTAL: 720W