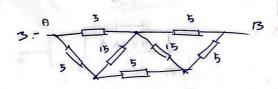
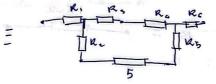
Problemas: Circuitos Corriente Continua

a)
$$\mathcal{I} = \frac{V}{R_r} : \frac{6}{11+1} = 0.5A$$

E) $V = \mathcal{I} \cdot R = 0.5 \cdot 1 = 0.5$
 $6V - 0.5U = 5.5U = 0.00$
c) $P = \mathcal{I} \cdot U = 0.5 \cdot 6 = 3.00$
d) $P = \mathcal{I} \cdot U = 0.5 \cdot 5.5 = 2.65$



Por las transformaciones 1-4:



$$-R_{1} = \frac{5.5}{25} = 1k2$$

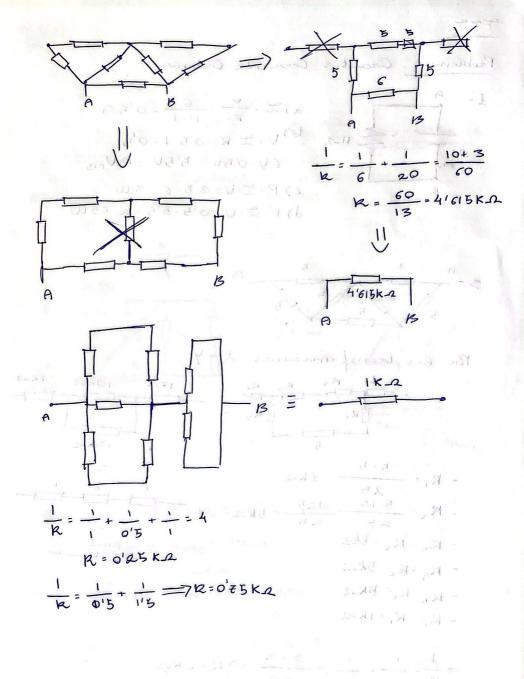
$$-R_{2} = \frac{5.15}{25} = \frac{125}{25} = 5k2$$

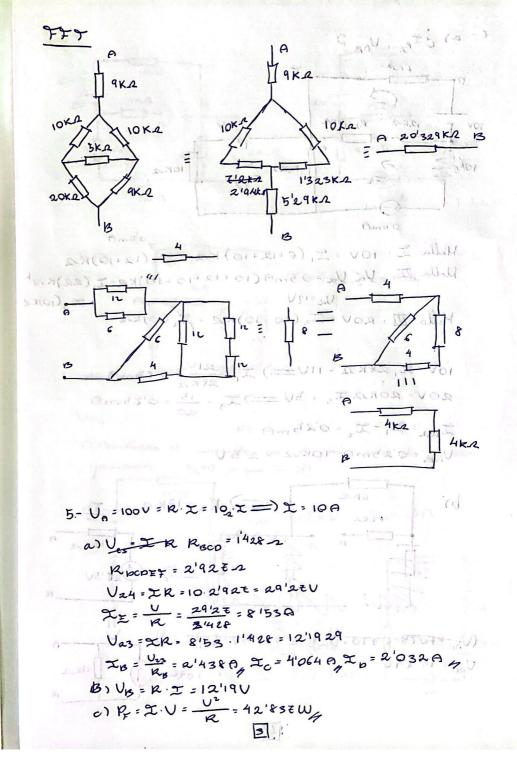


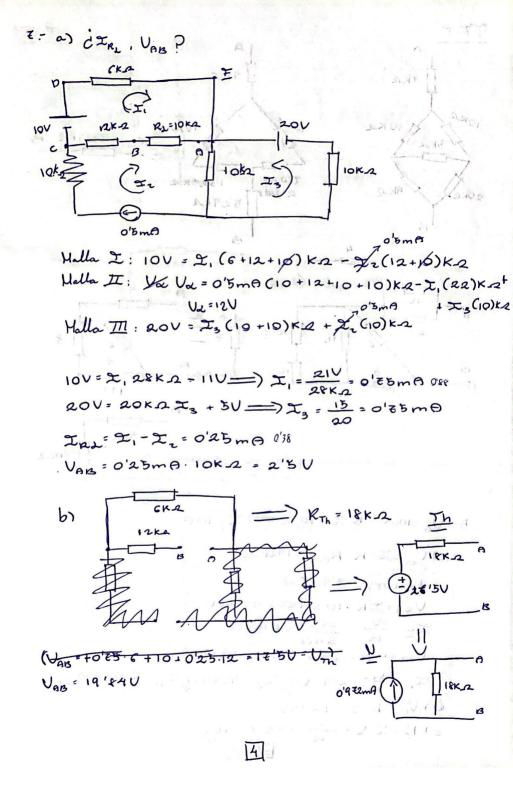
TO B C OF K.

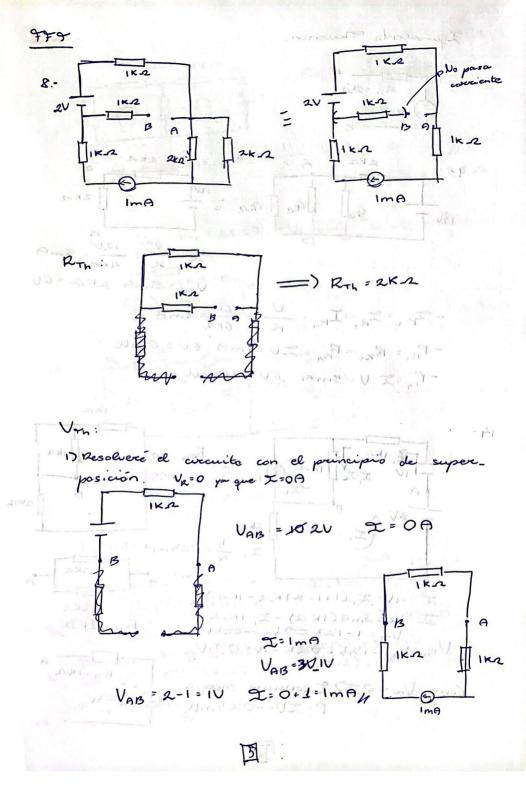
1KA

15K-2

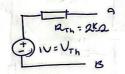


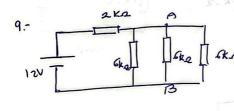


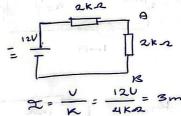




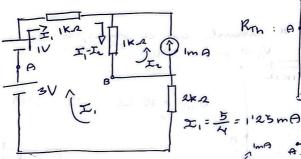
ivalenta Therenin:







14.



IKA

I: 40= I, (1+1+2) KA-1KA. L.

II: W= Ima(IKA)-I, IKA Vd: 1-125=) Vd=-025V

UTh: UAB = 125 + 925 - 1V = 05U,

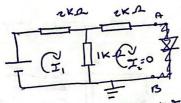
Como Va < 0 => I consume energia P= XV= -025mW (Vrn=0'50

ZKA

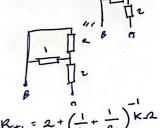
6



16-



王: 五: 王,(2+1) K及 为上,= Ui 3KA



2:0'6E

Rth = 2+ (1+ 1/2) KA Rth = 216 E KA

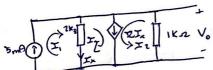
UTh: VAB = UTh = 2K2 X, +Ui = 2K2 U; +Vi = 5 U;

19 - 3KA 2000 IS | 5KA V

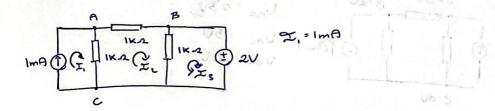
$$12V + 2000 T_S = T_S(S+5) KA$$

$$T_S = \frac{12}{6.10^3} = 2m A$$

Vo=10U

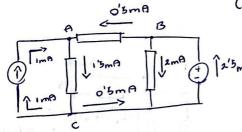


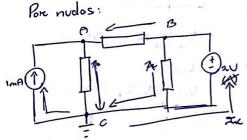
II: V2 = 5m (2KA) - 2Ix(2KA) = 3'332V II: V2 = 2Ix(2KA) - 5mA(2KA) = 3'332V V0 = 3'332V4 Ejemplo: Circuito C.C.



Por mallas:

$$\begin{vmatrix} 3\chi_1 + \chi_3 = 10^3 \implies -3\chi_1 - \chi_3 = -10^3 \\ \chi_1 + \chi_2 = 2 \cdot 10^3 \implies -2\chi_2 = 10^3$$





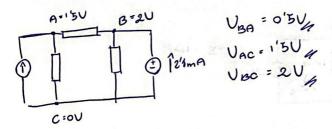
$$\mathcal{I}_{AC} = \frac{U_A - V_C^2}{IKA} = \frac{U_A}{IKA}$$

$$\mathcal{I}_{BC} = \frac{U_B}{IKA} \qquad (U_B = 2U)$$

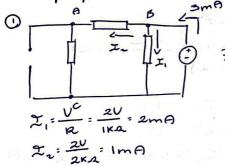
$$\mathcal{I}_{BA} = \frac{U_B - U_A}{IKA}$$

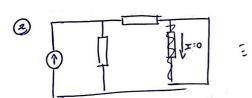
$$\mathcal{I}_{BA} = \frac{U_B - U_A}{IKA}$$

$$\mathcal{I}_{AB} = \frac{U_A - V_A}{IKA}$$









Si sumamos las I y V conse. quiremos as resultados

