

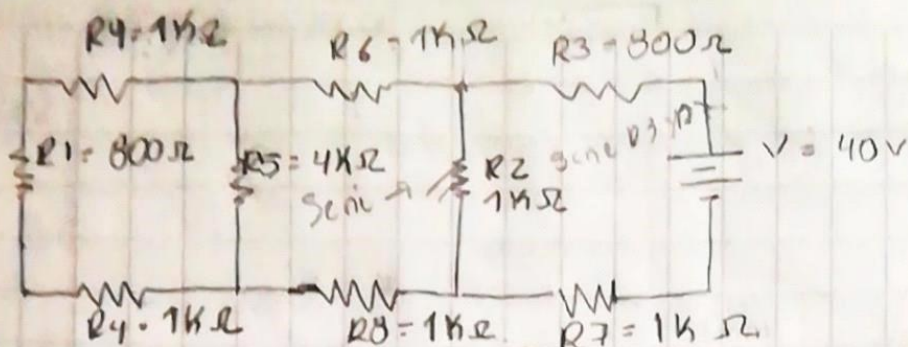
Volt en // =

Corriente en serie =

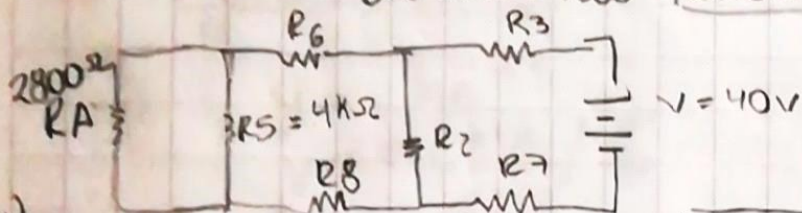


CHARTING 2 L

III -

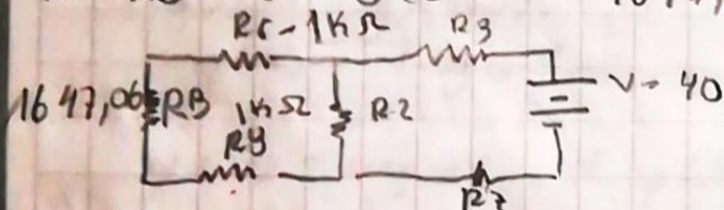


$$R_A = R_1 + R_4 + R_5 = 800 + 1000 + 1000 = \boxed{2800 \Omega R_A} \quad (\text{serie})$$



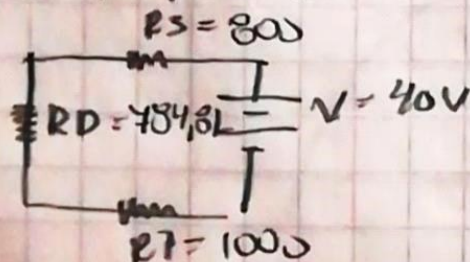
$$R_B = R_A + R_5 = \frac{1}{\frac{1}{2800} + \frac{1}{4000}} = \boxed{1647,06 \Omega R_B} \quad (//)$$

$$R_C = R_B + R_6 + R_8 (\text{serie}) = 1647,06 + 1000 + 1000 = \boxed{3647,06 \Omega R_C} \quad (\text{serie})$$



$$R_D = R_C + R_2 = \frac{1}{\frac{1}{3647,06} + \frac{1}{1000}} = \boxed{784,81 \Omega R_D} \quad (//)$$

$$R_T (\text{serie}) = R_D + R_3 + R_7 = 784,81 + 800 + 1000 = \boxed{2584,81 \Omega}$$



$$\begin{aligned} R_T &= 2584,81 \Omega \\ V_T &= 40V \\ I_T &= 0,0155 A \end{aligned}$$

$$I_T = \frac{40}{2584,81} = \boxed{0,0155 A}$$

$$R_T = R_D + R_3 + R_7 \text{ (serie)}$$

$$R_D = 784,81 \Omega \quad R_3 = 800 \Omega \quad R_7 = 1000 \Omega$$

$$V_{RD} = I \cdot R = 12,16 \text{ (V)} \quad V_{R3} = 12,4 \text{ (V)} \quad V_{R7} = 15,5 \text{ (V)}$$

$$I_{RD} = 0,0155 \text{ A} \quad I_{R3} = 0,0155 \text{ A} \quad I_{R7} = 0,0155 \text{ A}$$

$$R_D = R_C + R_2 \text{ (//)}$$

$$R_C = 3647,06 \Omega \quad R_2 = 1000 \Omega$$

$$V_{RC} = 12,16 \text{ (V)} \quad V_{R2} = 12,16 \text{ (V)}$$

$$I_{RC} = \frac{V}{R} = 3,33 \times 10^{-3} \text{ A} \quad I_{R2} = \frac{V}{R} = 0,012 \text{ A}$$

$$R_C = R_B + R_6 + R_8 \text{ (serie)}$$

$$R_B = 1647,06 \Omega \quad R_6 = 1000 \Omega \quad R_8 = 1000 \Omega$$

$$V_{RB} = I \cdot R = 15,48 \text{ (V)} \quad V_{R6} = I \cdot R = 3,33 \text{ (V)} \quad V_{R8} = I \cdot R = 3,33 \text{ (V)}$$

$$I_{RB} = 3,33 \times 10^{-3} \text{ A} \quad I_{R6} = 3,33 \times 10^{-3} \text{ A} \quad I_{R8} = 3,33 \times 10^{-3} \text{ A}$$

$$R_B = R_A + R_5 \text{ (//)}$$

$$R_A = 2800 \Omega \quad R_5 = 4000 \Omega$$

$$V_{RA} = 5,48 \text{ (V)} \quad V_{R5} = 5,48 \text{ (V)}$$

$$I_{RA} = \frac{V}{R} = 1,96 \times 10^{-3} \text{ A} \quad I_{R5} = \frac{V}{R} = 1,37 \times 10^{-3} \text{ A}$$

$$R_A = R_1 + R_9 + R_4 \text{ (serie)}$$

$$R_1 = 800 \Omega \quad R_9 = 1000 \Omega \quad R_4 = 1000 \Omega$$

$$V_{R1} = I \cdot R = 1,568 \text{ (V)} \quad V_{R9} = I \cdot R = 1,96 \text{ (V)} \quad V_{R4} = I \cdot R = 1,96 \text{ (V)}$$

$$I_{R1} = 1,96 \times 10^{-3} \text{ A} \quad I_{R9} = 1,96 \times 10^{-3} \text{ A} \quad I_{R4} = 1,96 \times 10^{-3} \text{ A}$$

$$R_T = 2584,81 \Omega$$

$$V_{R3} = 12,4 \text{ (V)}$$

$$V_{R1} = 1,568 \text{ (V)}$$

$$I_{R5} = 1,37 \times 10^{-3} \text{ A}$$

ejercicio

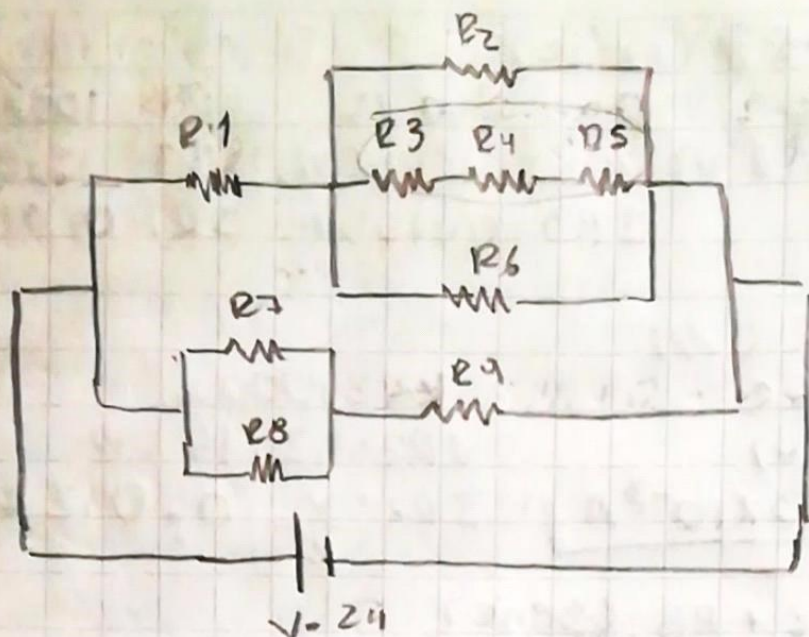
III

volt en //
corriente en serie



CIVARTINEZ E. 2L

I.-



$$R_3 + R_4 + R_5 = 10 + 20 + 18 = \boxed{48 \Omega}$$

$$R_2 + (R_3 + R_4 + R_5) + R_6 \parallel = \frac{1}{\frac{1}{48} + \frac{1}{16} + \frac{1}{24}} = \boxed{8 \Omega} \rightarrow R_A$$

$$R_A + 1 = 4 + 8 = \boxed{12 \Omega} \rightarrow R_B$$

$$R_7 + R_8 \parallel = \frac{1}{\frac{1}{12} + \frac{1}{4}} = \boxed{3 \Omega} \rightarrow$$

$$R_9 + (R_7 + R_8) \text{ en serie} = 3 \Omega + 3 \Omega = \boxed{6 \Omega} \rightarrow R_C$$

$$R_B + R_C \parallel = \frac{1}{\frac{1}{6} + \frac{1}{12}} = \boxed{4 \Omega}$$

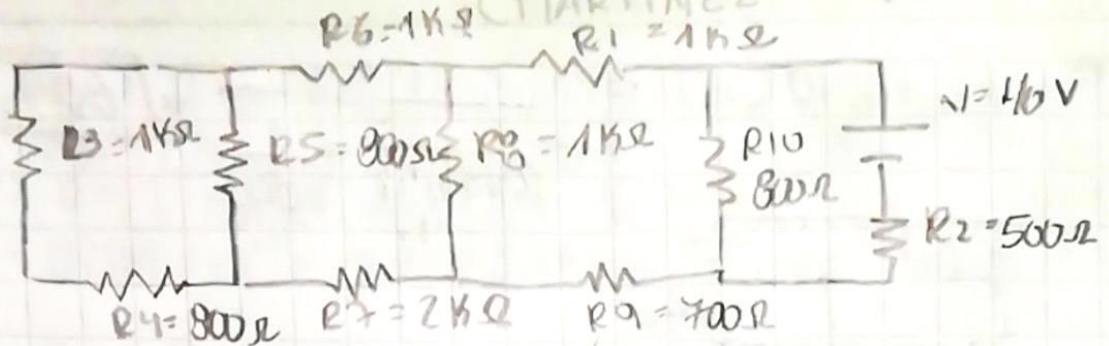
$$R_{\text{total}} = \boxed{4 \Omega}$$

Ejercicio 3

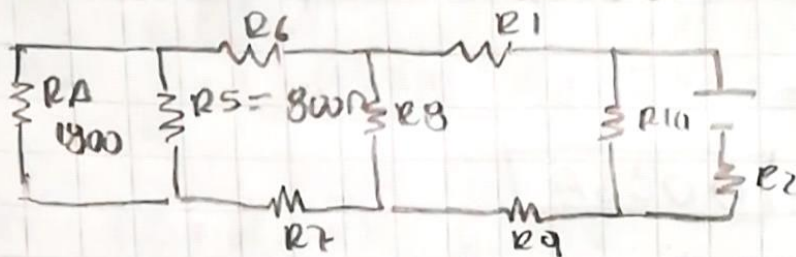
Volt // =
 Comente en serie =



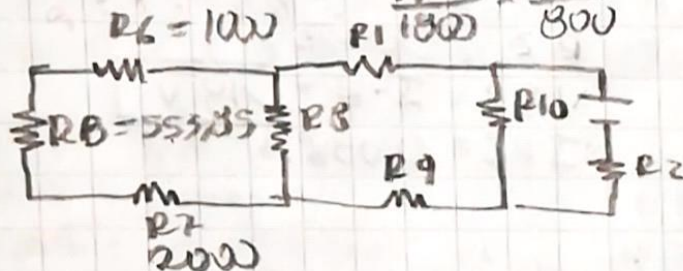
II-



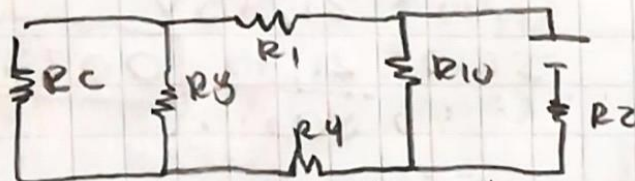
$$R_A = R_3 + R_4 \text{ (Serie)} = 1000 + 800 = 1800 \Omega$$



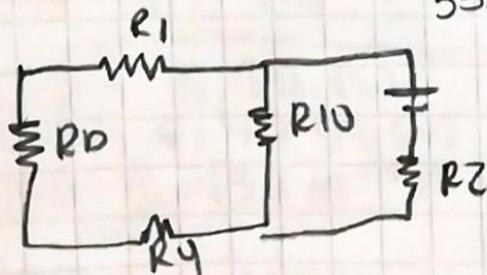
$$R_B = R_A + R_5 \text{ (//)} = \frac{1}{\frac{1}{1800} + \frac{1}{800}} = 553,85 \Omega \quad R_B //$$



$$R_C = R_B + R_6 + R_7 = 553,85 + 1000 + 2000 = 3553,85 \Omega \quad \text{Serie}$$

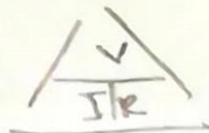


$$R_D = R_C + R_8 \text{ (//)} = \frac{1}{\frac{1}{3553,85} + \frac{1}{1000}} = 780,41 \Omega \quad R_D //$$



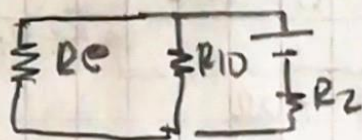
$$R_E = R_D + R_9 + R_{10} = 780,41 + 1000 + 700 = 2480,41 \Omega \text{ (Serie)}$$

|| voltage =
Series current =



$$R_F = R_e + R_{10} \text{ (11)} =$$

$$= \frac{1}{\frac{1}{2480,41} + \frac{1}{800}} = \boxed{604,9 \Omega R_F} \quad (11)$$



$$R_G = R_F + R_2 \text{ (Series)} = 604,9 \Omega + 500 = \boxed{1104,9 \Omega R_G}$$

$$R_{Total} = 1104,9 \Omega$$

$$V_T = 40V$$

$$I_T = \frac{40V}{1104,9 \Omega} = \boxed{0,036A}$$

$$R_G = R_F + R_2 \text{ (Series)}$$

$$R_F = 604,9 \Omega$$

$$V_{R_F} = R \cdot I = \boxed{21,78V}$$

$$I_{R_F} = 0,036A$$

$$R_2 = 500 \Omega$$

$$V_{R_2} = I \cdot R = \boxed{18V}$$

$$I_{R_2} = 0,036A$$

$$R_F = R_e + R_{10} \text{ (11)}$$

$$R_e = 2480,41 \Omega$$

$$V_{R_e} = 21,78V$$

$$I_{R_e} = \frac{21,78V}{2480,41 \Omega} =$$

$$I_{R_e} = \boxed{8,78 \times 10^{-3} A}$$

$$R_{10} = 800 \Omega$$

$$V_{R_{10}} = 21,78V$$

$$I_{R_{10}} = \frac{21,78}{800} = \boxed{0,027A}$$



≡ voltajes
Series $I =$

$$R_e = R_D + R_1 + R_9 \text{ (Series)}$$

$$R_D = 780,41 \Omega$$

$$R_1 = 1000 \Omega$$

$$R_9 = 700 \Omega$$

$$V_{RD} = I \cdot R = 6,35(V)$$

$$V_{R1} = I \cdot R = 8,78(V)$$

$$V_{R9} = 6,15(V)$$

$$I_{RD} = 8,78 \times 10^{-3} A$$

$$I_{R1} = 8,78 \times 10^{-3} A$$

$$I_{R9} = 8,78 \times 10^{-3} A$$

$$R_D = R_C + R_8 \text{ (//)}$$

$$R_C = 3553,85 \Omega$$

$$R_8 = 1000 \Omega$$

$$V_{RC} = 6,85(V)$$

$$V_{R8} = 6,85(V)$$

$$I_{RC} = \frac{V}{R} = 1,93 \times 10^{-3} A$$

$$I_{R8} = \frac{V}{R} = 1,93 \times 10^{-3} A$$

$$R_C = R_B + R_6 + R_7 \text{ (serie)}$$

$$R_B = 553,85 \Omega$$

$$R_6 = 1000 \Omega$$

$$R_7 = 2000 \Omega$$

$$V_{RB} = I \cdot R = 1,069(V)$$

$$V_{R6} = I \cdot R = 1,93(V)$$

$$V_{R7} = I \cdot R = 3,86(V)$$

$$I_{RB} = 1,93 \times 10^{-3} A$$

$$I_{R6} = 1,93 \times 10^{-3} A$$

$$I_{R7} = 1,93 \times 10^{-3} A$$

$$R_B = R_A + R_5 \text{ (//)}$$

$$R_A = 1800 \Omega$$

$$R_5 = 800 \Omega$$

$$V_{RA} = 1,069(V)$$

$$V_{R5} = 1,069(V)$$

$$I_{RA} = \frac{V}{R} = 5,93 \times 10^{-4} A$$

$$I_{R5} = 1,34 \times 10^{-3} A$$

$$R_A = R_3 + R_4 \text{ (Series)}$$

$$R_3 = 1000 \Omega$$

$$R_4 = 800 \Omega$$

$$V_{R3} = 0,593(V)$$

$$V_{R4} = 0,4744(V)$$

$$I_{R3} = 5,93 \times 10^{-4} A$$

$$I_{R4} = 5,93 \times 10^{-4} A$$

$$V_{R8} = 6,85(V)$$

$$V_{R4} = 0,4744(V)$$

$$I_{R3} = 5,93 \times 10^{-4} A$$

Ejercicio II

$$R_{total} = 1104,9 \Omega$$