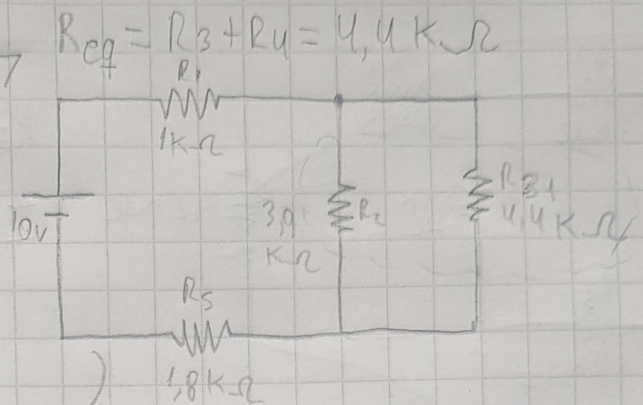
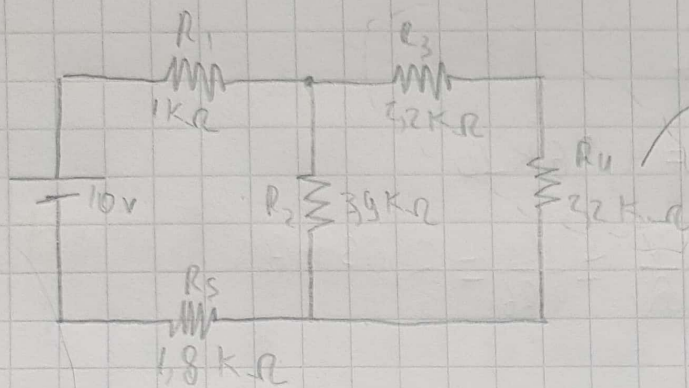
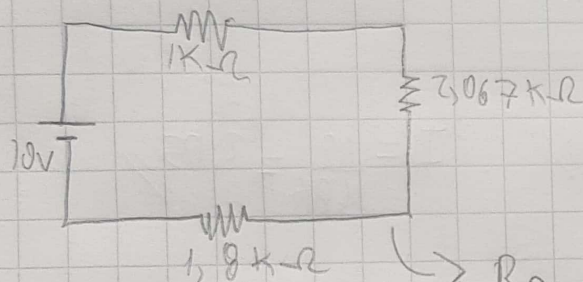


Resistencia equivalente



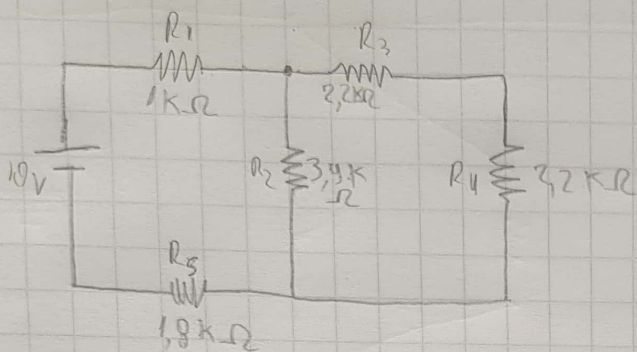
$$\frac{1}{R_{eq}} = \frac{1}{4,4} + \frac{1}{3,9}$$

$$R_{eq} = 2,067$$



$$R_{eq} = 1 + 2,067 + 1,8$$

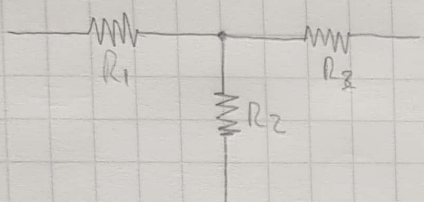
$$R_{eq} = 4,867\text{k}\Omega$$



$$R_{eq} = 4,86 k\Omega$$

$$I = \frac{V}{R} = \frac{10}{4,86} = 2,05 \text{ mA}$$

Node 1



$$I_{R2} = \frac{4,24}{3,9} = 1,09 \text{ mA} //$$

$$I_1 = \frac{10}{4,86} = 2,05 //$$

$$I_{R3} = \frac{3,12}{2,2} = 0,964 \text{ mA} //$$

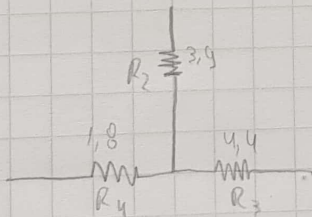
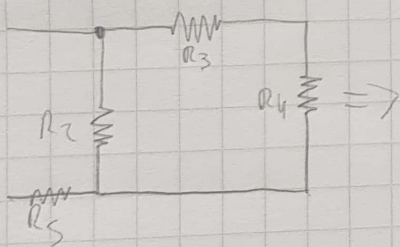
$$I_T = I_{R2} + I_{R3}$$

$$2,05 = 1,09 + 0,964$$

$$2,05 = 2,054 //$$

Umple //

Node 2



$$I_{R2} = \frac{4,24}{3,9} = 1,09 \text{ mA}$$

$$I_{R3} = \frac{4,248}{4,4} = 0,96 \text{ mA}$$

$$I_{R5} = \frac{3,69}{1,8} = 2,05 \text{ mA}$$

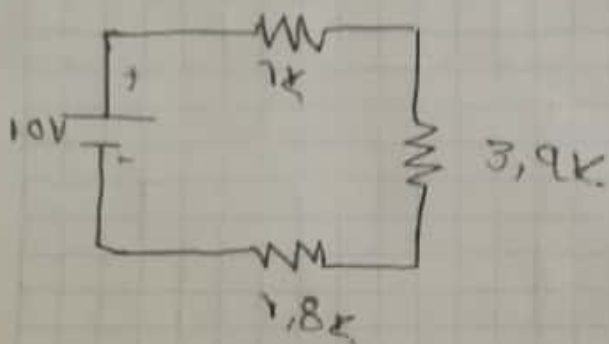
$$I_{R5} = I_{R3} + I_{R2}$$

$$2,05 \text{ mA} = 1,09 \text{ mA} + 0,96 \text{ mA}$$

$$2,05 \text{ mA} = 2,05 \text{ mA} //$$

Umple

Trayectoria ①



$$V_{R1} = I_1 \cdot R_1 = 0.001 \cdot 1k = 1.000V$$

$$V_{R5} = I_5 \cdot R_5 = 0.001 \cdot 3.9k = 3.900V$$

$$V_{3,4} = V_{R2} = 4.248V$$

$$V_{3,4} = 2.124V$$

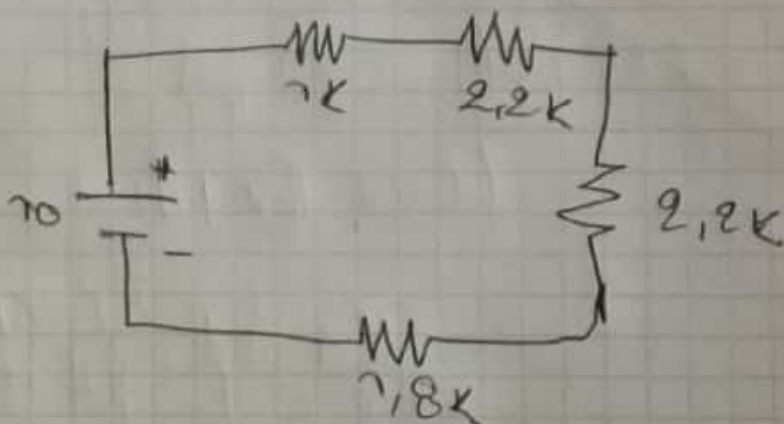
$$V_T = V_1 + V_2 + V_5$$

$$10 = 1.000 + 4.248 + 3.900$$

$$0.001 = 0$$

Example //

Trayectoria ②



$$V_{R1} = 1.000V$$

$$V_{R3} = 2.124V$$

$$V_{R4} = 2.124V$$

$$V_{R5} = 3.900V$$

$$10V - 1.000 - 2.124 - 2.124 - 3.900 = 0$$

$$0.001 = 0 \Rightarrow \text{so example}$$