

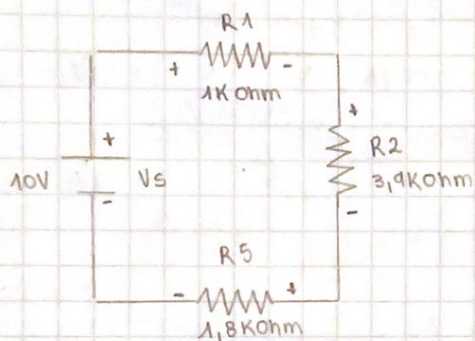
$$\bullet R_{eq} = R_1 + R_{2,3,4} + R_5$$

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

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

$$\bullet I_T = \frac{V_T}{R_{eq}} = \frac{10V}{4,867} = 2,055mA$$

• Trayectoria 1:



$$\bullet V_{R1} = I_1 \cdot R_1 = 2,055 \cdot 1 = 2,055V //$$

$$\bullet V_{R2,3,4} = I_{2,3,4} \cdot R_{2,3,4} = 2,055 \cdot 2,0674 = 4,248V //$$

$$\bullet V_{R5} = I_5 \cdot R_5 = 2,055 \cdot 1,8 = 3,698V //$$

$$\bullet V_{R3,4} = V_{R2} = 4,248V$$

$$\bullet V_{R3,4} = 2,124V$$

* LEY DE KIRCHHOFF (VOLTAGE)

$$\bullet V_S = V_1 + V_2 + V_5$$

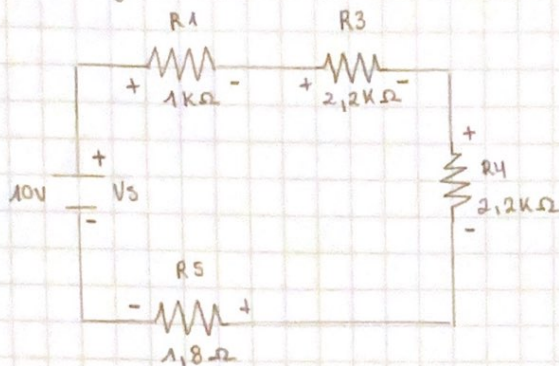
$$V_S - V_1 - V_2 - V_5 = 0$$

$$10V - 2,055V - 4,248 - 3,698 = 0$$

$$-0,001 \approx 0 //$$

⇒ SI SE CUMPLE

• Trayectoria 2 :



• $V_{R1} = 2,055V$

• $V_{R3} = 2,124V$

• $V_{R4} = 2,124V$

• $V_{R5} = 3,698V$

* LEY DE KIRCHHOFF (VOLTAJE)

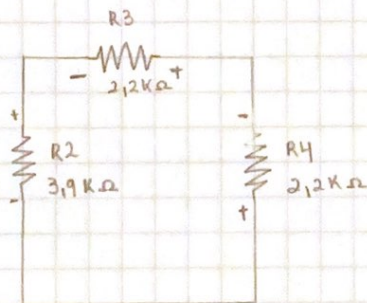
• $V_S = V_{R1} + V_{R3} + V_{R4} + V_{R5}$

$V_S - V_{R1} - V_{R3} - V_{R4} - V_{R5} = 0$

$10V - 2,055V - 2,124V - 2,124V - 3,698V = 0$

$-0,001 \approx 0 //$ \Rightarrow SI SE CUMPLE

• Trayectoria 3 :



• $V_{R2} = 4,248V$

• $V_{R3} = 2,124V$

• $V_{R4} = 2,124V$

* LEY DE KIRCHHOFF (VOLTAJE)

$V_{R2} = V_{R3} + V_{R4}$

$V_{R2} - V_{R3} - V_{R4} = 0$

$4,248V - 2,124V - 2,124V = 0$

$0 = 0$ \Rightarrow SI SE CUMPLE