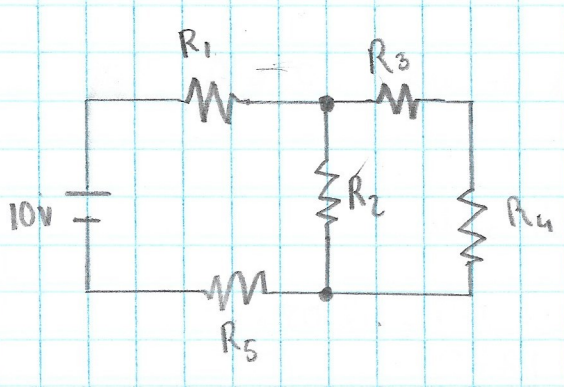


$R_1 = 1k\Omega$
$R_2 = 3,9k\Omega$
$R_3 = 2,2k\Omega$
$R_4 = 2,2k\Omega$
$R_5 = 1,8k\Omega$

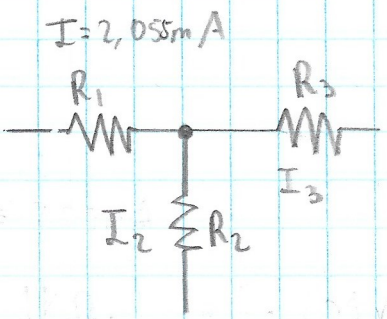
$V = 10v$

$$R_{Teq\,//} = \frac{1}{\frac{1}{R_2} + \frac{1}{R_3+R_4}} = \frac{1}{\frac{1}{3,9\times10^3} + \frac{1}{2,2\times10^3+2,2\times10^3}} = 2,067k\Omega$$

$$R_T = R_1 + R_{//} + R_5 = 1\times10^3\Omega + 2,067\times10^3\Omega + 1,8\times10^3\Omega$$

$$R_T = 4,867k\Omega$$

$$I_T = \frac{V_T}{R_T} = \frac{10v}{4,867k\Omega} = 2,055mA$$



Nodo 1

I_{R_1} de entrada = 2,05 mA

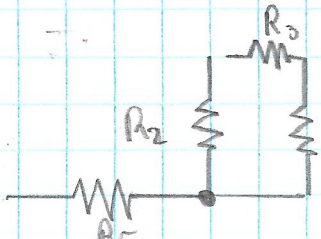
$$I_{R2} = \frac{V_{R2}}{R_2} = \frac{4,25v}{3,9k\Omega} = 1,09mA$$

$$I_{R3} = \frac{V_{R3}}{R_3} = \frac{2,12v}{2,2k\Omega} = 0,963mA$$

$I_{Entrada} = 2,05mA$ $I_{salida} = 1,09mA + 0,963mA = 2,053mA$

Si cumple LCK

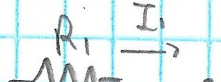
Nodo 2



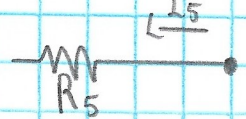
$I_{entrada} = I_{R2} + I_{R3} = 2,053$

$$I_{salida} = \frac{V_5}{R_5} = \frac{3,70v}{1,8k\Omega} = 2,05mA$$

Si cumple LCK



Intensidad de entrada = 2,05 mA



Intensidad de salida

$$I_5 = \frac{V_5}{R_5} = \frac{3,70\,V}{1,8\,k\Omega} = 2,05\,mA$$

Intensidad de entrada = 2,05 mA = Intensidad de salida