Taller De Refuerzo

Analisis De Circuitos

Presentado Por: Juan Gabriel Ospina Blair

Profesor:

Jhonatan Ríos

Ficha:

3099686

Fecha:

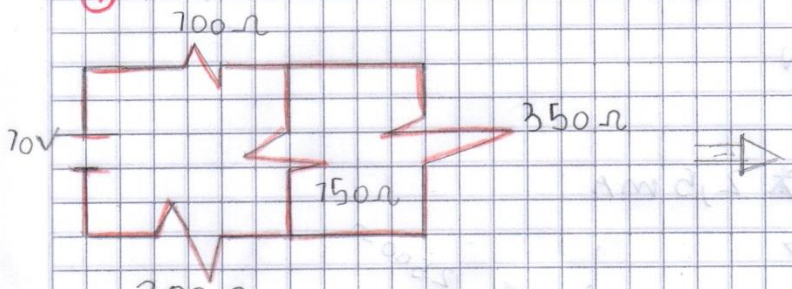
05/05/2025

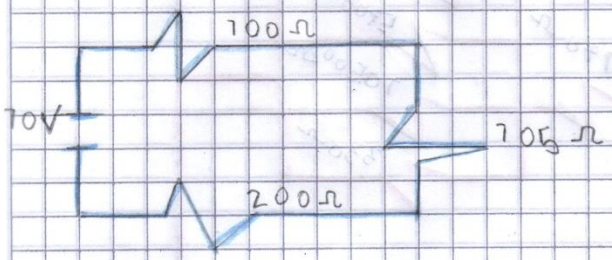
Lugar:

Santa Rosa de Cabal

(Risaralda)

Ejercicios ohm y watt

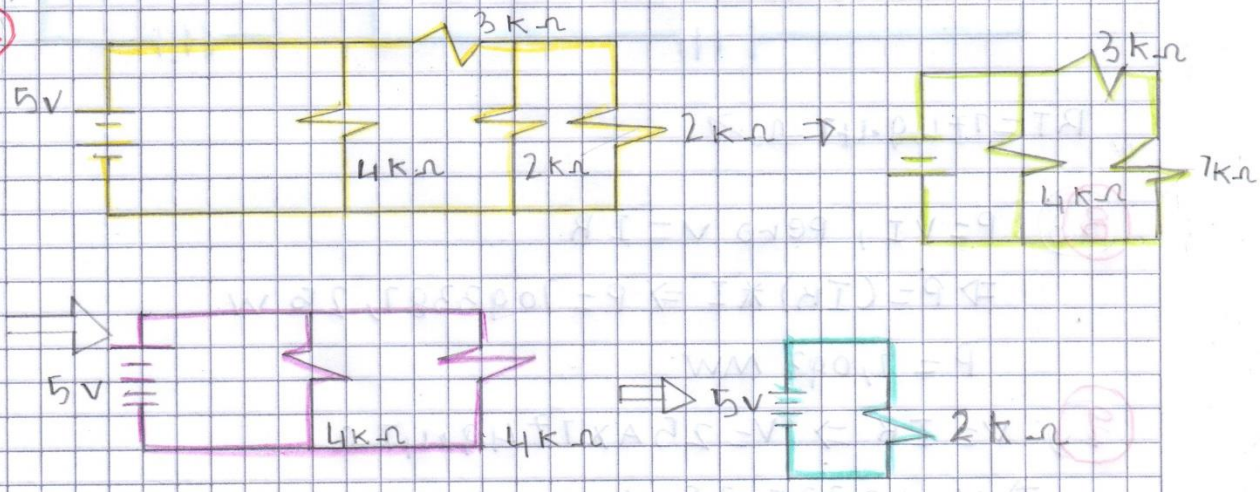
① 



$RT = 700\Omega + 705\Omega + 200\Omega = \underline{405\Omega}$

② $I = \frac{V}{R} = \frac{70V}{405\Omega} = \underline{0,02469A}$

③ $P = VI = 70V * 0,02469mA = \underline{0,2469W}$

④ 

$R_T = 2\,k\Omega$

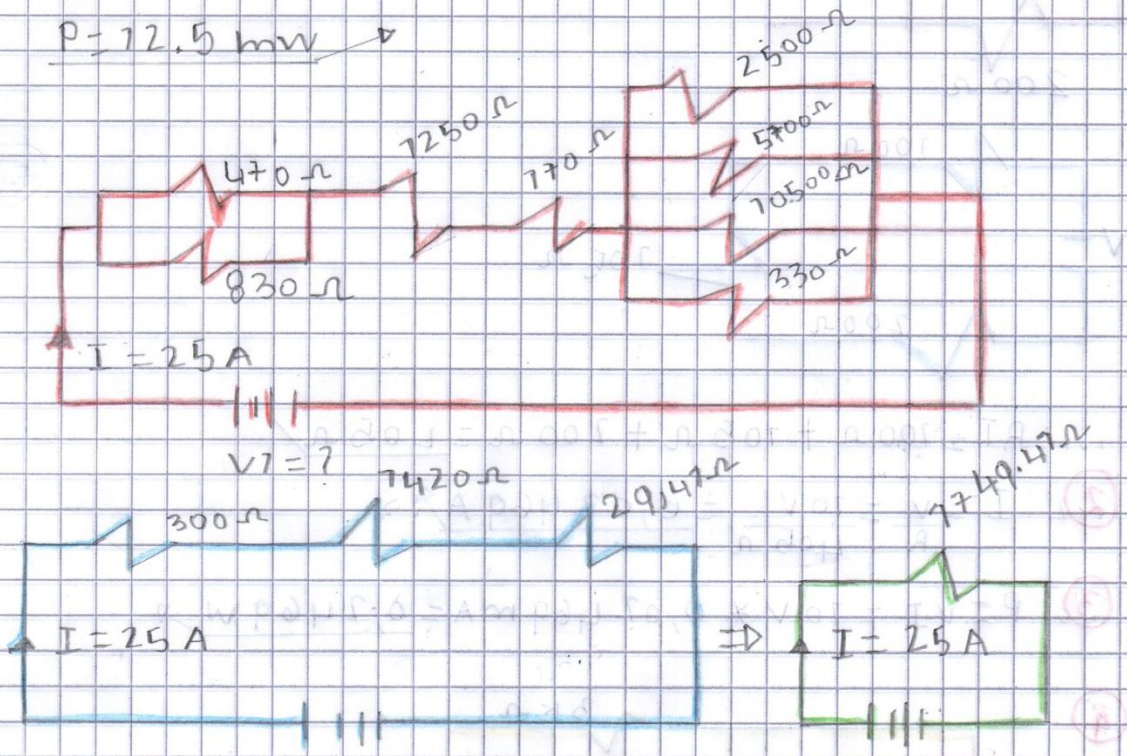
(5) $I = \frac{V}{R} = \frac{5\,V}{2\,k\Omega} = 2.5 \times 10^{-3}\,A$

$I = 2.5\,mA$

(6) $P = V * I = 5v * 2{,}5\,mA$

$P = 12.5\,mW$

(7)



$R_T = 7749.47\,\Omega$

(8) $P = VI$, pero $V = IR$

$\Rightarrow P = (IR) * I \Rightarrow P = 1093387{,}25\,W$

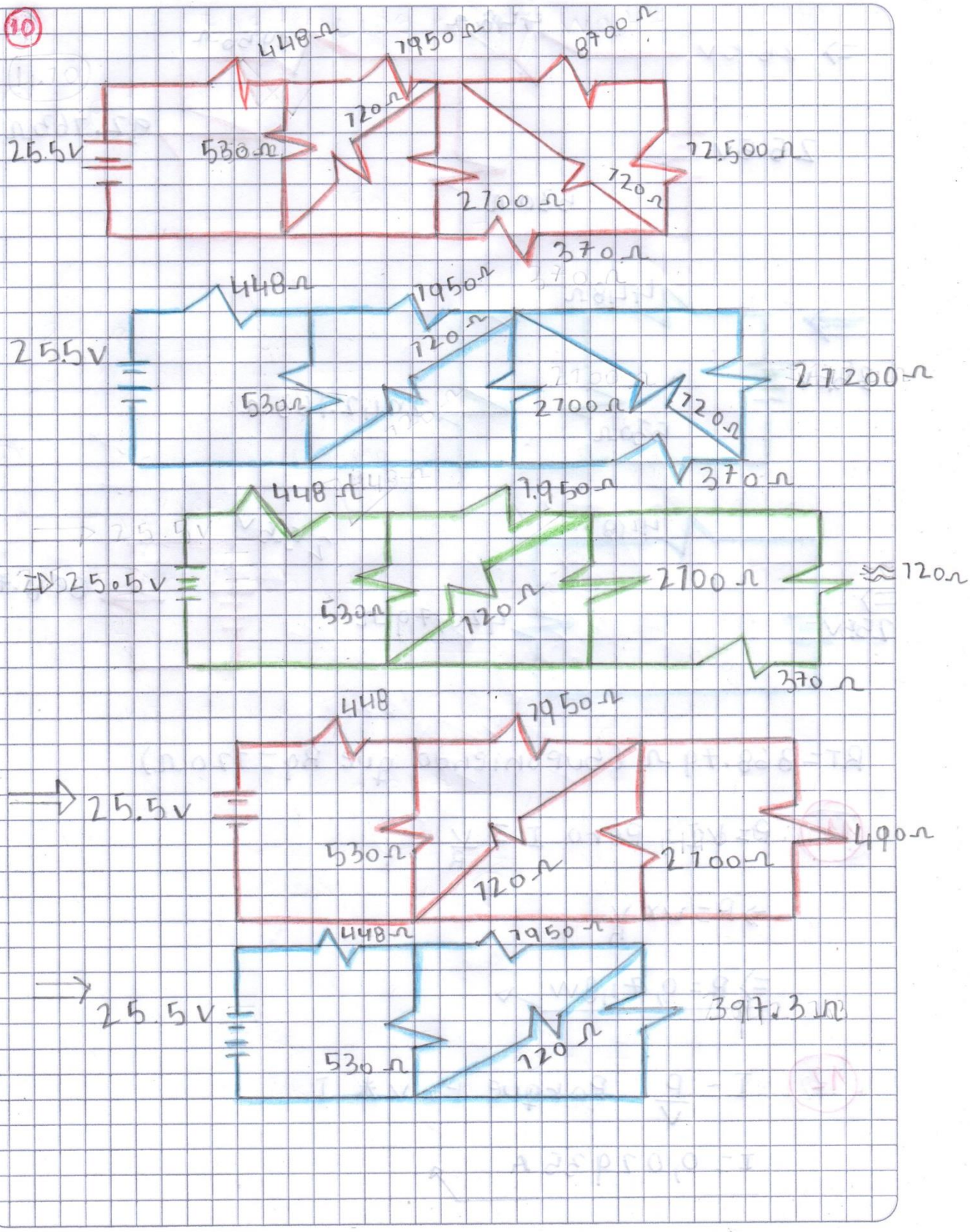
$P = 1{,}093\,MW$

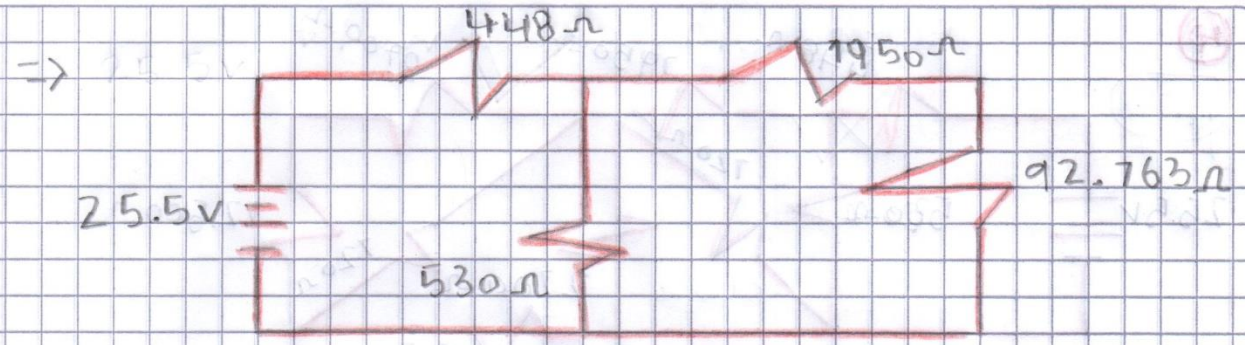
(9) $V = IR \Rightarrow V = 25\,A \times 7749.47\,\Omega$

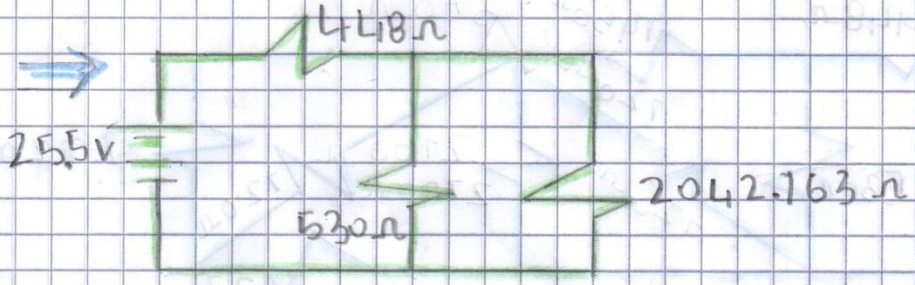
$\Rightarrow V = 43735{,}25\,V$

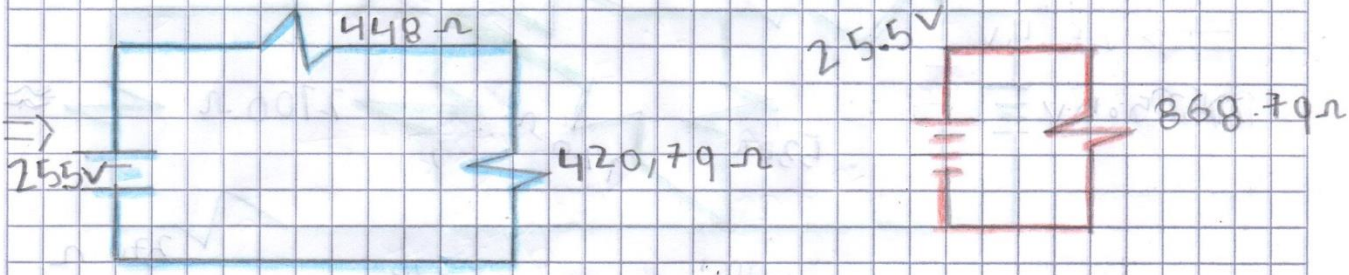
$\Rightarrow V = 43{,}74\,KV$

10


448 Ω
7950 Ω
8700 Ω
720 Ω
25.5 V
530 Ω
72.500 Ω
2700 Ω
720 Ω
370 Ω
448 Ω
7950 Ω
720 Ω
25.5 V
530 Ω
27200 Ω
2700 Ω
720 Ω
370 Ω
448 Ω
7.950 Ω
25.5 V
530 Ω
720 Ω
2700 Ω
720 Ω
370 Ω
448
7950 Ω
25.5 V
530 Ω
720 Ω
2700 Ω
490 Ω
448 Ω
7950 Ω
25.5 V
530 Ω
720 Ω
397.3 Ω







$R_T = 868.79\ \Omega$ (Suponiendo que $R_9 = 720\ \Omega$)

(11) $P = VI$, pero $I = \frac{V}{R}$

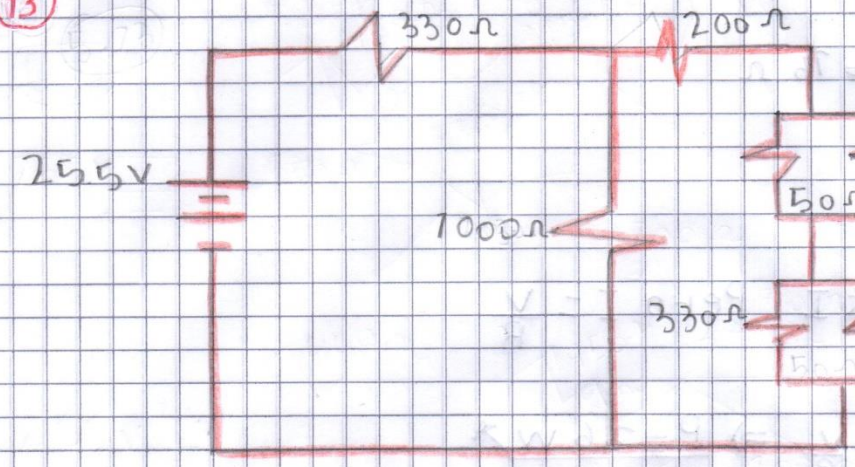
$\Rightarrow P = V \times \frac{V}{R}$

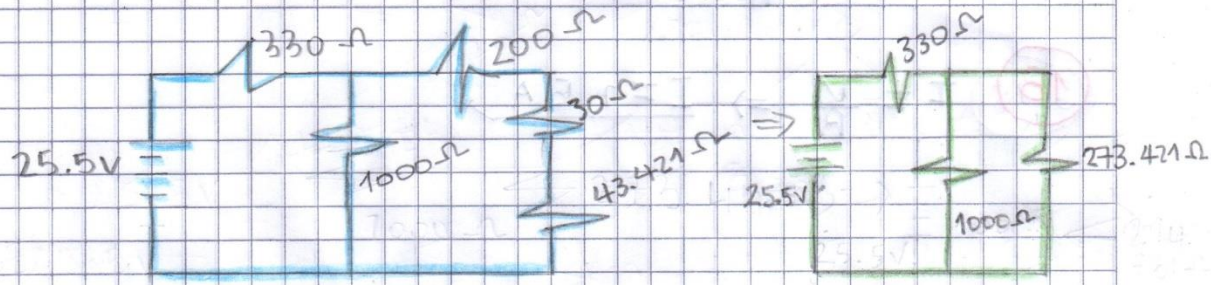
$\Rightarrow P = 0,748\ W$

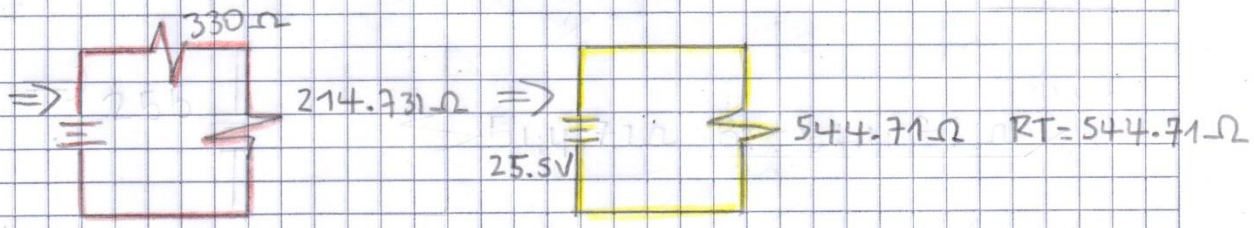
(12) $I = \frac{P}{V}$ Porque $P = V * I$

$I = 0,02935\ A$

13







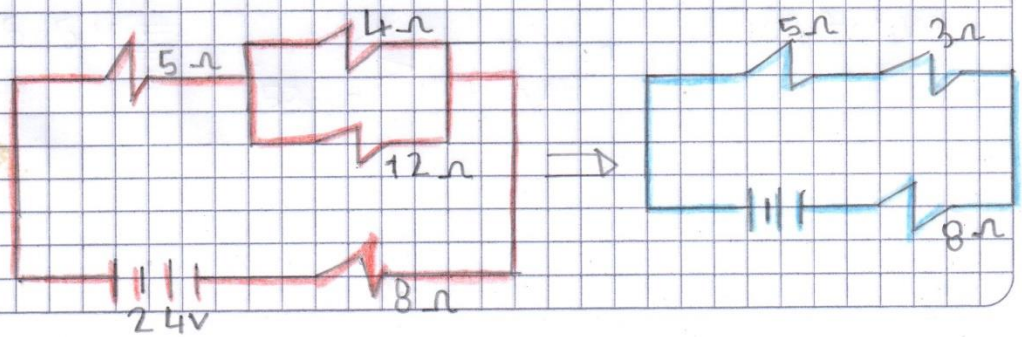
RT = 544.71 Ω

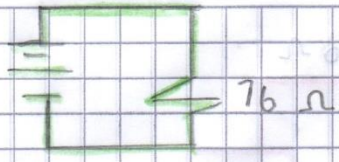
14 $P = V * I$ pero $I = \frac{V}{R}$

$P = V * \frac{V}{R} \Rightarrow P = 1,7039\,W$

15 $I = \frac{V}{R} \Rightarrow I = 0,0468\,A$

16





$R_T = 76\ \Omega$

(17) $P = V * I$, Pero $I = \frac{V}{R}$

$P = V * \frac{V}{R} \Rightarrow P = 36\ W$

(18) $I = \frac{V}{R} \Rightarrow I = 1{,}5\ A$