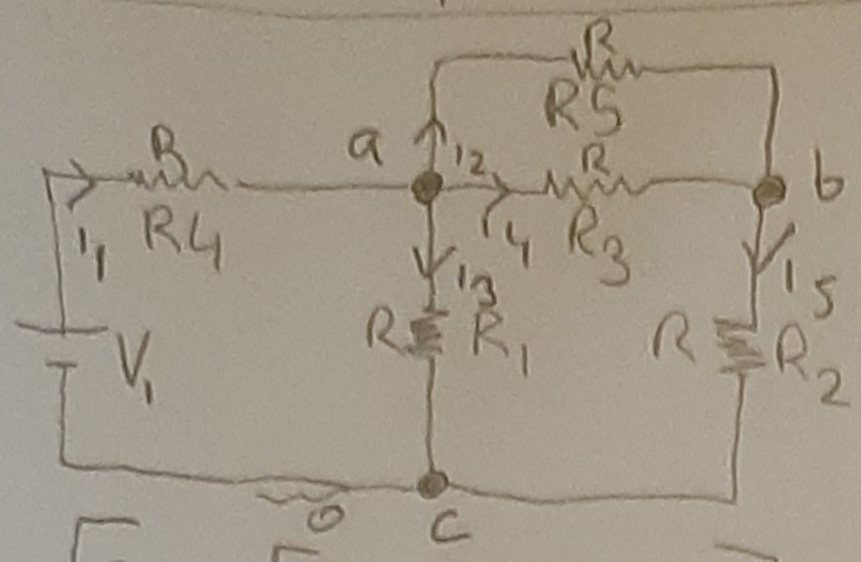
Ad-Melih Soyad=Yelman Öğrenci Sırası=21011702 İmza=

Hesaplar



$$R_{es} = R_4 + \left[R_1 \,||\, \left[[R3 \,||\, R5] + R_2\right]\right]$$

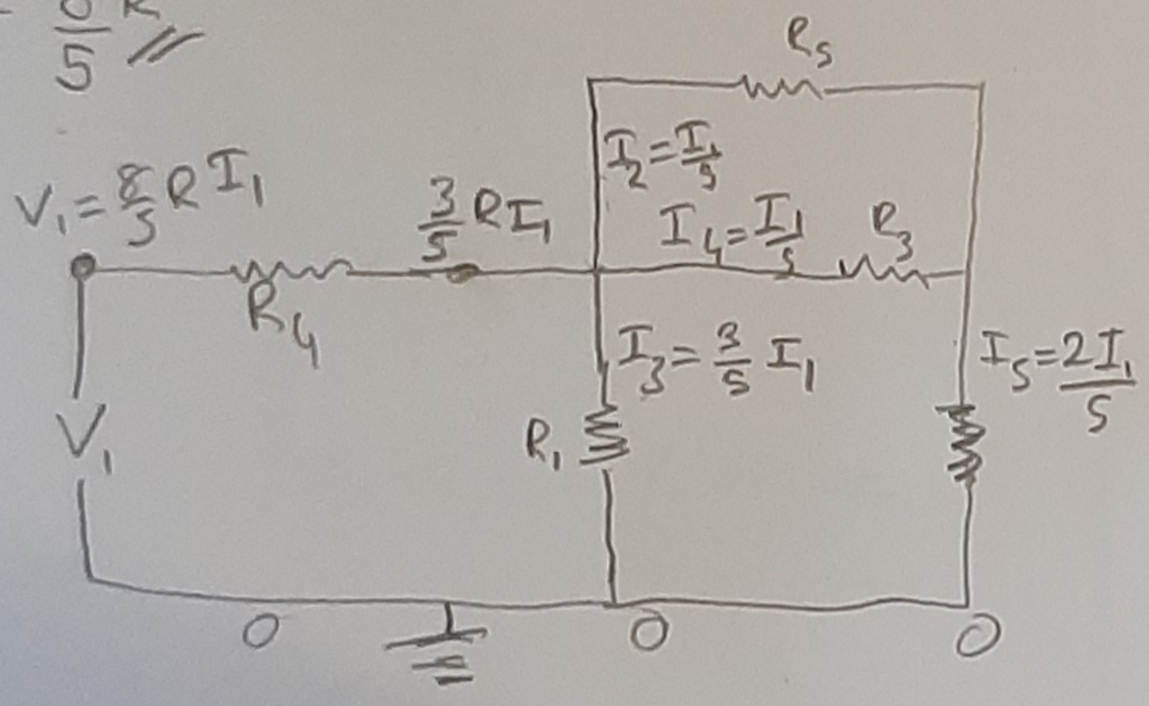
$$= R + \left[R \,||\, \left[E\, \frac{R \cdot R}{2R}\right] + R\right]$$

$$= R + \left[R \,||\, \frac{3R}{2}\right]$$

$$= R + \frac{R \cdot 3R}{\frac{2}{5R}} = R + \frac{3R}{5}$$

$$\frac{2}{2}$$

$$R_{es} = \frac{8}{5}R \,//$$



$I_3 = \frac{3}{5} I_1$

$I_2 = \frac{I_1}{5}$

$I_4 = \frac{I_1}{5}$

$I_5 = \frac{2}{5} I_1 \,//$

Düğüm a

$I_1 = I_2 + I_3 + I_4 \,//$

Düğüm b

$I_5 = I_2 + I_4 \,//$

Düğüm c

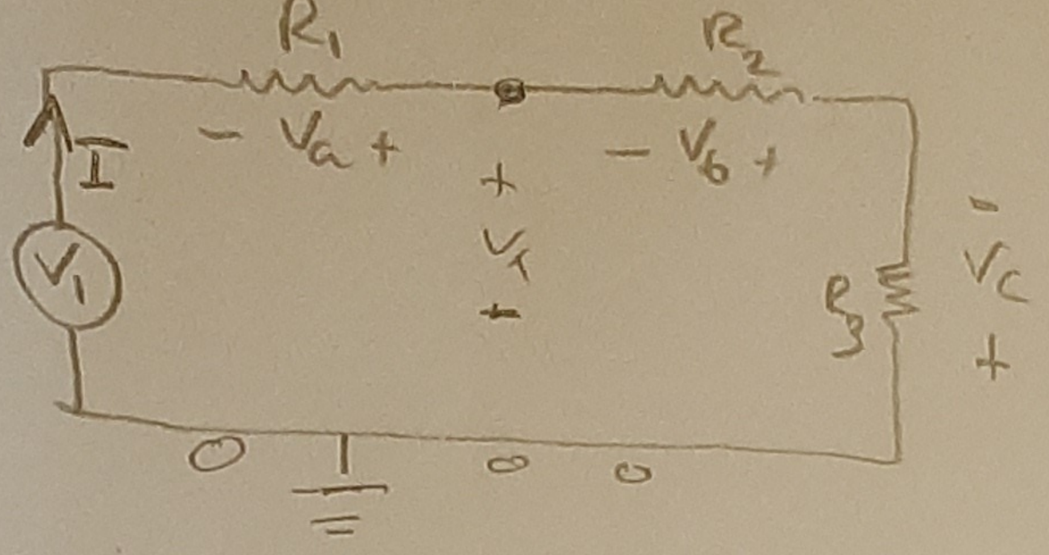
$I_1 = I_3 + I_5 \,//$

Ölçümler

I_1(mA)	I_2(mA)	I_3(mA)	I_4(mA)	I_5(mA)
1600	250	500	250	500

Ad= Melih Soyad= Yelman Öğrenci Sırası= 21011702 İmza= MYLK

Hesaplar



$$R_{es} = R_1 + R_2 + R_3$$

$$I = \frac{V_1}{R_1+R_2+R_3}$$

$$V_a = I \cdot R_1 = -\frac{R_1 \cdot V_1}{R_1+R_2+R_3}$$

$$V_b = I \cdot R_2 = -\frac{R_2 \cdot V_1}{R_1+R_2+R_3}$$

$$V_c = I \cdot R_3 = -\frac{R_3 \cdot V_1}{R_1+R_2+R_3}$$

$$V_x = I \cdot (R_2+R_3) = -\frac{V_1 \cdot (R_2+R_3)}{R_1+R_2+R_3}$$

$$V_x = V_1 + V_a = -V_b - V_c$$

Ölçümler

V_1	V_a	V_b	V_c	V_x	$V_a+V_b+V_c$
5	1	1.65	2.35	4	5