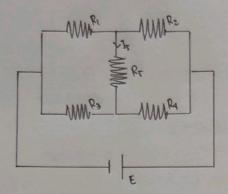
Hama: Lubic Auliyat

telar: 103 TB

## Percobaan VI - Theorema Thevenin



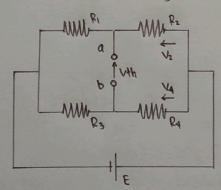
Cambot rangleaian.

Oiket	: R = 1 ks
	B2 = 2 k2
	R3 = 4ks2
	Ra = 31-52
	R5 = 36a

Otanyokan: It, menopunatan T. the venia.

tto	E(V)	Vth (V)	Io (mA)	Ren (4.11)	It (MA)
1	5	1,19		2,38	0,397
2	10	2,38		2,38	0,993
3	12	3,57		2,38	1,19
4	10	4.76		2,38	1,59

## \* Legar boban Rs, hitung Vth.



$$V_2 = \frac{R_2}{R_1 + R_2} \times E$$

Mencari Vth.

→ E = 15 volt

No = Ska x 12 n = 10 roll

V4 = 3ke2 x 15 V = 6,43 vott

Vth = 10 U - 6,43 V = 3,59 Wolt

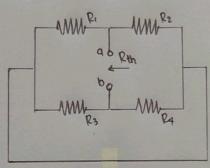
HOU OS = 3 -

V2 = 222 x 20 V = 13, 33 Volt

V4 = 3ka x 20v = 8,57 volt
4ka + 3ka

Vth = 13,33 V - 8,57 V = 4,76 VOlt.

\* Hitung Rth , maka E = 0.



Rth = (R1 1/R2) + (R3 1/R4)

 $= \frac{R_1 \cdot R_2}{R_1 + R_2} + \frac{R_3 \cdot R_4}{R_3 + R_4}$ 

= 1k2.2kx + 4k2.3kx 1k2+2kx + 4k2.3kx

= 666,67 2+1714,32

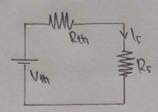
= 2380,97 1 = 2,38 K2

thote: hilai Rth Utt Setiap E adalah sama.

karna E tak mempengaruhi perubahan

masing? nilai P. (E=0)

\* Rangkaian Ekwalan Thevenin.



Is = Veh

Ren + Re

2.3862+362 = 3,97.10-4 A

= 0,397 MA

→ E = 10 NOSF

Is= 2,38 V 2,38 k Q + 3 k Q = 7,93.10-4 A

= 0,793 mA

→ £ = 15 VOL

Is = 3,57 V 2,38k&+3ka

= 11,9.10-4 A

= 1,19 MA

→ E = 20 volt

1,76 V 2,38ka+3ka

= 15,9.10-4 A

= 1,59 mA.