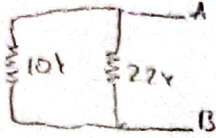
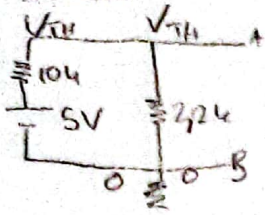


## 1. Devises

The void in



$$R_{\text{TH}} = 102 \parallel 226$$

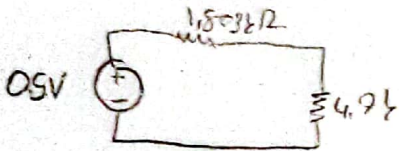
$$R_{TH} = 1,8036 \Omega$$

$$\frac{V_{TH}}{2,2k} + \frac{V_{TH}-5}{10k} = 0$$

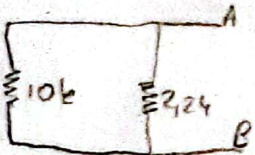
$$61 V_{TH} - 55 = 0$$

$$V_{TH} = 55/61 \text{ V} = 0.9 \text{ V}$$

Theremin Esdegar dantesi

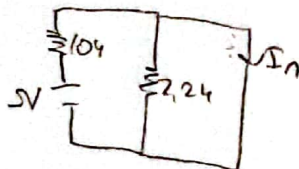


Norton



$$R_N = 10 \times 11,224$$

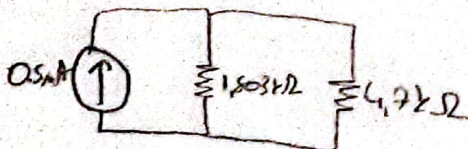
$$R_N = 1.8032 \Omega$$



$$I_N = \frac{5V}{10k\Omega}$$

$$I_N = 0.5 \text{ mA}$$

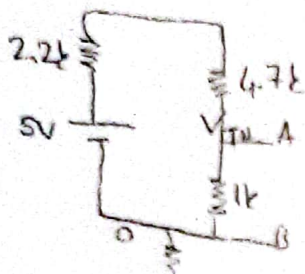
Norton Esdegar deures:



	$V_{TH}$ (V)	$R_{TH}$ (k $\Omega$ )	$I_N$ (mA)	$R_N$ (k $\Omega$ )	$V_{Og}$ (V)		$I_{mA}$	
					Gerçel	Esdeğer	Gerçel	Esdeğer
Deney 1	0.9	1.803	0.5	1.803	0.9		0.14	0.14
Deney 2	0.63	0.843	0.7	0.843	0.63		0.11	



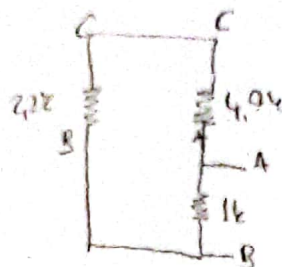
## 2. Devre:

Thevenin

$$\frac{V_{Tb} - 5}{6.9k} + \frac{V_{Tb}}{1k} = 0$$

$$79V_m - 50 = 0$$

$$V_{TH} = 50/79 V = 0.63V$$

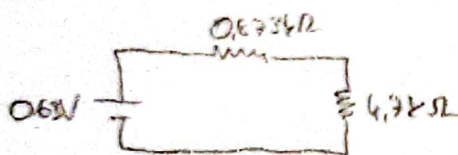


$$R_{TH} = (4,2 + 2,2) || 1$$

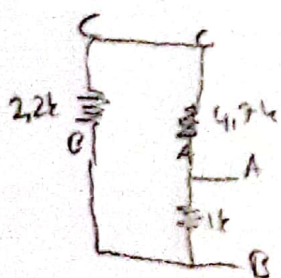
$$= 6,9 || 1$$

$$R_{TH} = 0,6736 \Omega$$

Thevenin Eşdeğer Devresi :

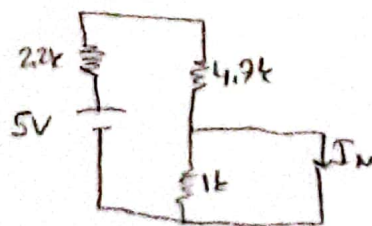


Norton



$$R_N = (4.7 + 2.2) \parallel 1$$
$$= 6.9 \parallel 1$$

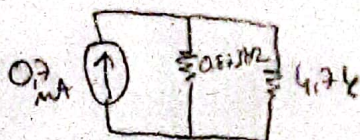
$$R_N = 0.873 \text{ k}\Omega$$





$$I_V = \frac{5V}{6.94 \Omega}$$

$$I_N = 0,7 \text{ mA}$$

Norton Edgar Devers

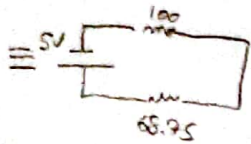
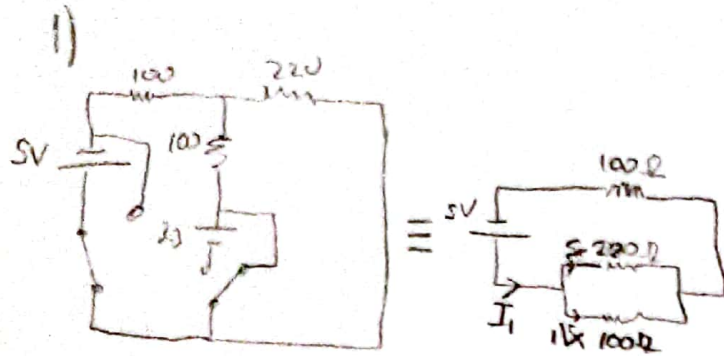
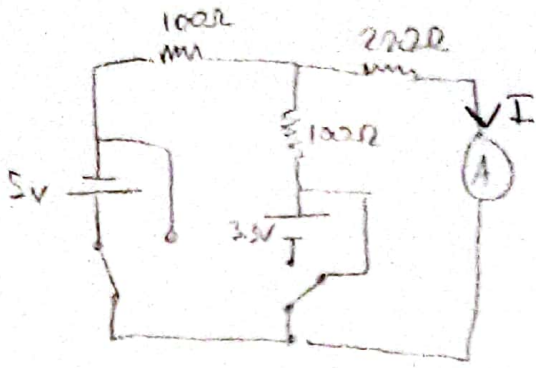


	$V_m$ (V)	$R_{TV}$ ( $\Omega$ )	$I_m$ (mA)	$R_N$ ( $\Omega$ )	$V_{os}$		$I_{GA}$	
					Correct	Eschöter	Correct	Eschöter
Devire 1	0.9	1.803	0.5	4.803	0.9		0.14	0.14
Devire 2	0.63	6.873	0.7	0.873	0.63		0.11	0.11



## Hesaplar

## Ölçüler



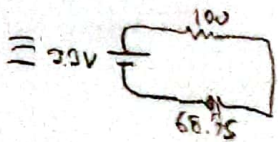
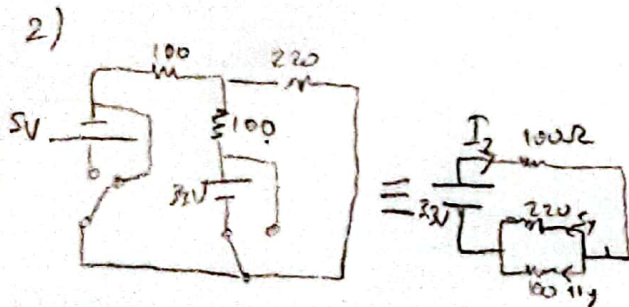
$$V = I \cdot R$$

$$5V = 168.95 \cdot I_1$$

$$I_1 = 296 \text{ mA}$$

$$16x = I_1$$

$$5x = 9.25 \text{ mA}$$



$$V = I_2 R$$

$$3V = 168.95 \cdot I_2$$

$$I_2 = 195 \text{ mA}$$

$$16y - I_2$$

$$5y = 6.09 \text{ mA}$$

3)

$$I = I_2 - I_1 = 5y - 5x = 6.09 - 9.25$$

$$I = -3.16 \text{ mA}$$

Akım yönleri  
farklı ve Ampermetre  
 $I_2$ 'ye göre bağlanmıştır.

	$V_1 (V)$	$V_2 (V)$	$I (mA)$
Hesap	-5		-9.25
Ölçüm	-5		-9.26
Hesap		3.3	6.09
Ölçüm		3.3	6.11
Hesap	-5	3.3	-3.16
Ölçüm	-5	3.3	-3.15