UNIVERSIDADE TECNOLÓGICA FEDERAL DO PARANÁ

RELATÓRIO PRÁTICO DE CIRCUITOS ELÉTRICOS 1

Prática 4

Teorema de Thevenin

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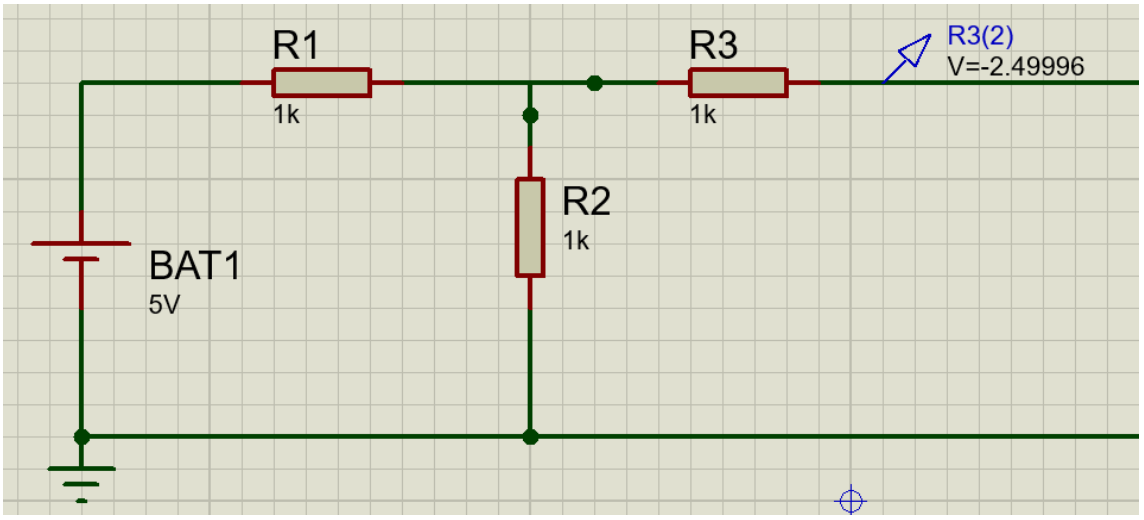
1.0)

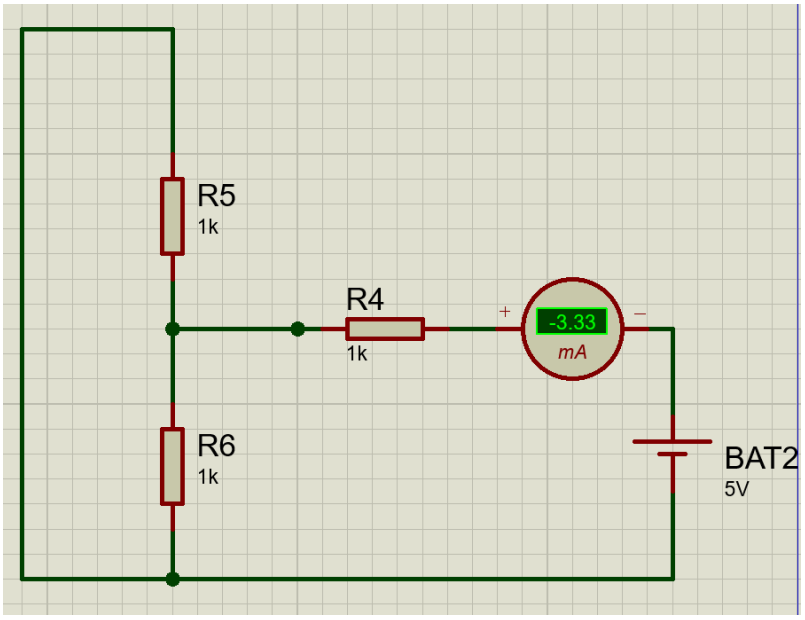


1.1)

Rout = R1 || R2 - > Rout = $\frac{R1R2}{R1+R2}$ = $\frac{1k\Omega 1k\Omega}{1k\Omega+1k\Omega}$ = $\frac{1(k\Omega)^2}{2k\Omega}$ = $0.5k\Omega$

Rout = 0.5kΩ + 1kΩ = **1.5kΩ**

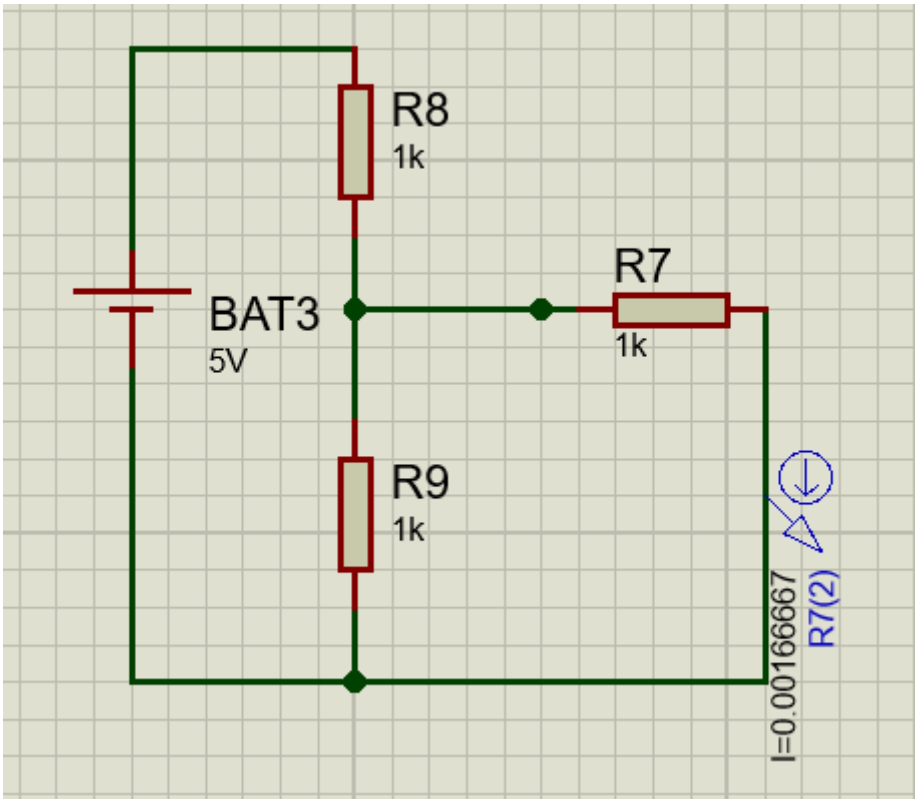
2)



Rout = $\frac{V}{Ix}$= $\frac{5V}{3.33mA}$ = **1.5kΩ**

Em comparação com a etapa 1, as resistências encontradas são as mesmas.

3)



Isc = 1.67mA

Voc = 2.5V

Rth = $\frac{Voc}{Isc}$ = $\frac{2.5V}{1.67\ mA}$ = **1.5kΩ,** assim Rout é equivalente a Rth.