FLORIDA INTERNATIONAL UNIVERSITY
## COLLEGE OF ENGINEERING AND COMPUTING
DEPARTMENT OF ELECTRICAL AND COMPUTER ENGINEERING

EEL 3110L-CIRCUITS LAB

THIRD ACTIVITY: Thévenin and Norton Equivalent Circuits. Do the computer simulations before or after the lab (it's recommended that you do them before).

1-For the given circuit and conditions, find the Thévenin and Norton equivalent circuit looking into **ab**.
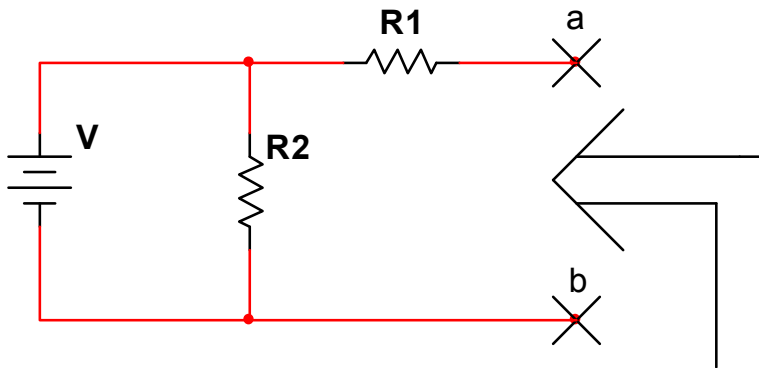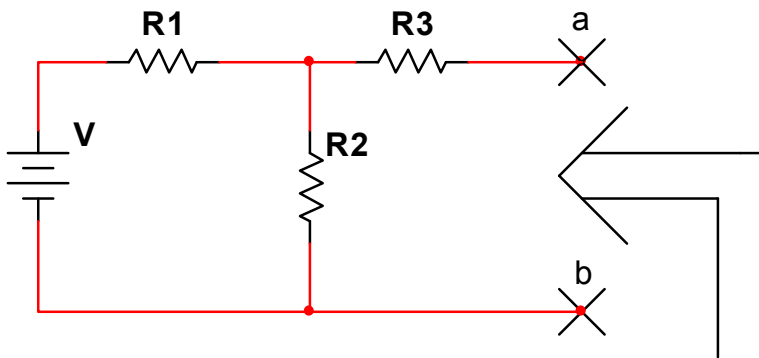

a) $R_1 \geq 1k\Omega$
b) $R_2 \geq 2.2k\Omega$
c) 2.4 volts $\leq V \leq 10$ volts

Compute Thévenin and Norton equivalent circuit seen by **ab**.

Briefly explain and comment your results.

2- For the given circuit and conditions, find the Thévenin and Norton equivalent circuit looking into **ab**.

a) $R_1 \geq 1k\Omega$
b) $R_2 \geq 2.2k\Omega$
c) R_3 use your potentiometer at two difference setting.
d) 2.4 volts $\leq V \leq 10$ volts

Compute Thévenin and Norton equivalent circuit seen by **ab** for both case.

Briefly explain and comment your results.

3- For the given circuit and conditions, find the Thévenin and Norton equivalent circuit looking into **ab**.
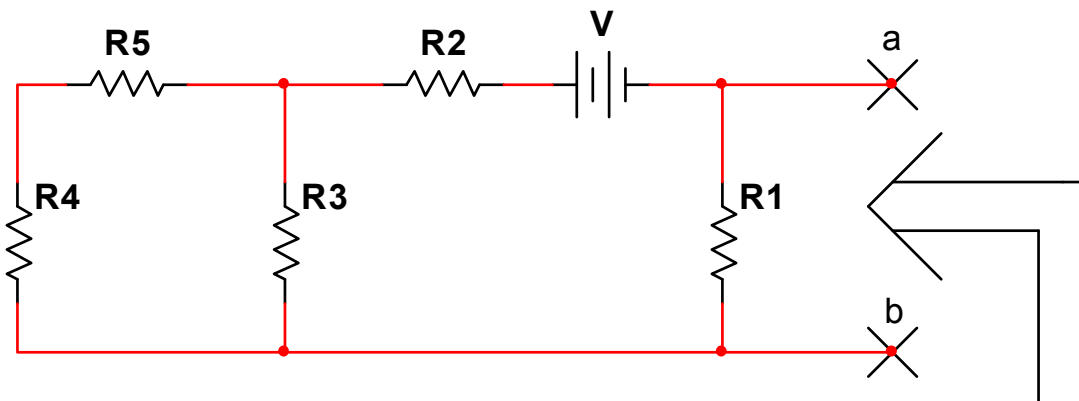

a) $R_1 \geq 3.3k\Omega$
b) $R_2 \geq 5k\Omega$
c) $R_3 \geq 1k\Omega$
d) $R_4 = R_5 = 2.2k\Omega$
e) $2.4 \text{ volts} \leq V \leq 10 \text{ volts}$

Compute Thévenin and Norton equivalent circuit seen by **ab**.

Briefly explain and comment your results.

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      Write a brief summary of today activities. Remember to keep your records and own comments in your lab notebook.