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 $\text{ab}$.

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

Compute Thévenin and Norton equivalent circuit seen by $\text{ab}$.

Briefly explain and comment your results.
2- For the given circuit and conditions, find the Thévenin and Norton equivalent circuit looking into ab.

- a) \( R_1 \geq 1\, \text{k}\Omega \)
- b) \( R_2 \geq 2.2\, \text{k}\Omega \)
- c) \( R_3 \) use your potentiometer at two different settings.
- d) \( 2.4 \, \text{volts} \leq V \leq 10 \, \text{volts} \)

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

Briefly explain and comment your results.
3- For the given circuit and conditions, find the Thévenin and Norton equivalent circuit looking into \( ab \).

a) \( R_1 \geq 3.3\, \text{k}\Omega \)
b) \( R_2 \geq 5\, \text{k}\Omega \)
c) \( R_3 \geq 1\, \text{k}\Omega \)
d) \( R_4 = R_5 = 2.2\, \text{k}\Omega \)
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.

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