

CENG 215 Circuits and Electronics

LAB #1 Feuille

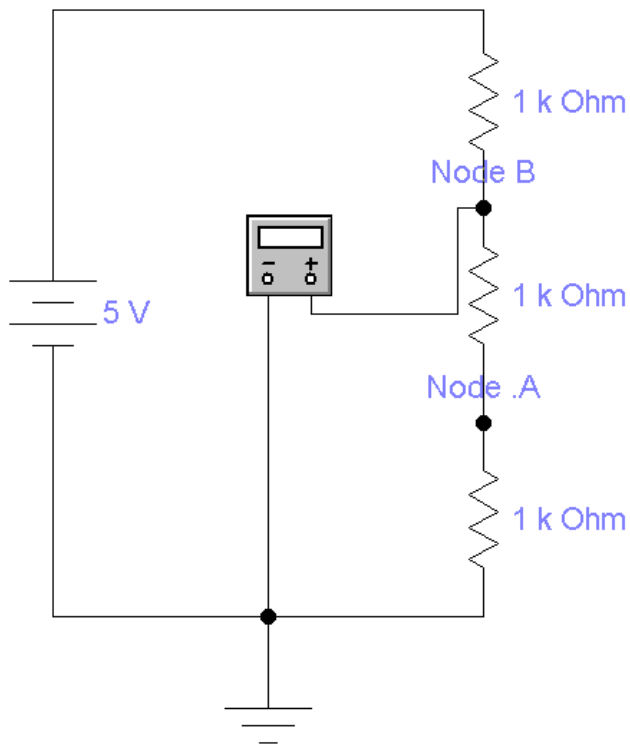
Place: PC Lab

Aim

To build resistive networks on a circuit simulator, to measure the voltages and currents and to compare the measurements with the theoretical analysis results.

Work to be done:

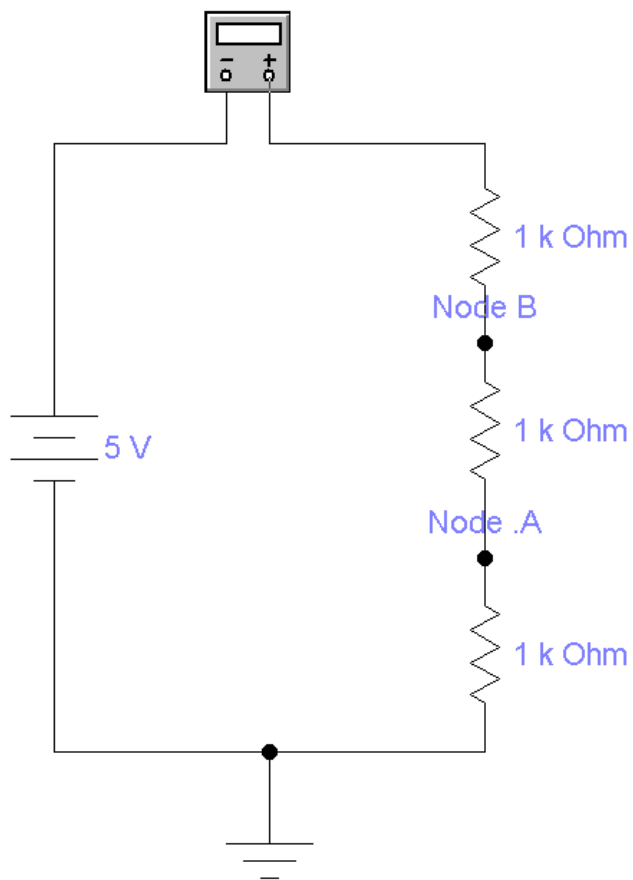
1. Build the following circuit.



2. Measure the voltage of the voltage source, measure the resistance values of three resistors. Using the measured values, analyze the circuit (Calculate the current and voltages of Node A and Node B).

3. Measure the voltages of Node A and Node B.

4. Measure the current as follows:



5. Compare the results of the theoretical analysis and your measurements. Are there differences? Comment on this.

Final Remarks

Repeat the same work on PySpice.