Experiment 7

A. Follow the instructions Steps 1-6 in Experiment 7: Delta-Wye Configurations.

Pre-Lab Report 4

An Excel spreadsheet using the Experiment 7 report template containing:
   a. Complete the Analysis, PSpice, and Calculations worksheets.
**Experiment 7 Validation**

**Instructions for the Validation:**

Students will have their circuit constructed on the ANDY board, and have the ANDY board power supply, and the DMM along with their Tablet PC ready for the validation.

Students will have constructed the Delta and Wye resistor circuits.

![Delta Circuit Diagram](image1.png)

![Wye Circuit Diagram](image2.png)

The grade for Experiment 7 Validation will be based upon two sets of criteria listed below.

**Proper Circuit Construction Techniques:**

1. Student’s wiring is neat.
2. No wire is more than an inch above the breadboard.
3. A red wire is used for power.
4. A black wire is used for ground.

**Proper Measurement Techniques Performed Before an OpEL GTA:**

1. Measure the resistance between nodes a and b on the Delta circuit and show that the resistance is equivalent to the resistance between nodes a and b on the Wye circuit.
2. Measure the resistance between nodes b and c on the Delta circuit and show that the resistance is equivalent to the resistance between nodes b and c on the Wye circuit.
3. Measure the resistance between nodes a and c on the Delta circuit and show that the resistance is equivalent to the resistance between nodes a and c on the Wye circuit.