## 2.5: Practical Voltage and Current Measurement (25 points total)

1. Provide the expected output voltage for both ideal and non-ideal voltmeters, based on your pre-lab analysis. (5 pts)
2. Provide a circuit schematic below; include measured resistance values on your schematic. (2 pts)
3. In the space below, provide your measured output voltage and your estimated value of the internal resistance of the voltmeter of your DMM. Comment on your results, especially relative to the effects of the voltmeter on the quantity being measured. (7 pts)
4. In the space below, provide your measured output voltage and your estimated value of the internal resistance of the voltmeter of your Analog Discovery. Comment on your results, especially relative to the effects of the voltmeter on the quantity being measured. (6 pts)
5. **DEMO**: Have a teaching assistant initial this sheet, indicating that they have observed your circuit’s operation. (5 pts)

**TA Initials: \_\_\_\_\_\_\_**