## 5.4.4: Difference Amplifier (30 points total)

1. Provide below the relationship between the input and output voltages that you determined in the pre-lab. Why is the circuit is called a difference amplifier? (5 pts)
2. Provide below a schematic of the circuit you implemented, including actual resistance values used in your circuit. (2 pts)
3. Attach to this worksheet a table of output and input voltages for your circuit. Also attach a plot of the output vs. input voltages. (10 pts)
4. In the space below, provide a brief discussion of your results and a comparison between measured and expected circuit response. Include any observations you made relative to saturation of the output. (5 pts)
5. **DEMO**: Have a teaching assistant initial this sheet, indicating that they have observed your circuits’ operation. (8 pts)

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