## 4.4.1: Two-terminal Characteristics (25 points total)

1. In the space below, provide the functional relationship between the voltage *Vab* and the current *I* that you determined in part 1 of the pre-lab. Also provide the slope and the y-intercept of the curve. (6 pts)
2. From part 2 of the pre-lab, provide below the following:
   1. the expected voltage Vab if the terminals a-b are open-circuited (2 pts)
   2. the equivalent resistance of the circuit seen across the terminals a-b with the voltage supply short-circuited (2 pts)
3. Attach to this worksheet a plot of the voltage vs. current data you acquired in part 2 of the lab procedures. In the space below, provide the equation of the least-squares best fit straight line approximating the data. (7 pts)
4. In the space below, provide your summary of the results of your pre-lab analysis and experimental data from the post-lab exercises. Include all items listed in the lab assignment. (8 pts)