## 11.4.2: Non-inverting Low Pass Filter (50 points)

1. In the space below, provide the resistance and capacitance values you chose to meet the given design requirements. Also provide the expected values input resistance, cutoff frequency, and DC gain for your circuit. Compare these values to the design specifications. (8 pts)
2. Attach to this worksheet a sketch of the straight-line approximation to the Bode plot for your design. (5 pts)
3. In the space below, tabulate the input frequencies and the magnitude response of your circuit (in decibels) at each of these frequencies. (Note: feel free to include additional data in your table. It may result in partial credit.) (10 pts)
4. **DEMO**: Have a teaching assistant initial this sheet, indicating that they have observed your circuit’s operation. (4 pts total)

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

1. Attach to this worksheet an image showing the output of the Network Analyzer window. (8 pts)
2. Attach to this worksheet a plot showing the Network Analyzer data overlaid with the tabulated data from part 3 above. (10 pts)
3. In the space below, comment on the agreement between the agreement between the data acquired in part 3 and the data acquired with the Network Analyzer in part 6. Also comment on the agreement between your expectations based on your pre-lab analysis and both sets of data. (5 pts)