	EE 40	Name:
Pre-Lab:	RC/RLC Filters and LabVIEW	TA:
		Session:

1. In this lab you will explore the two RC filters shown in the **Description and Background** section of the **Experiment Guide**. Derive the equations (1) and (2) of the transfer functions for the filters of Fig. 1 and Fig. 4.

- 2. If the ordinary frequency, in Hz, for a sinusoidal signal is 100 Hz, what is the corresponding angular frequency of that signal (both magnitude and units)?
- 3. What will be the frequency range you choose to plot the transfer function in order to see the filter feature (LPF or HPF)? How do you determine the range?
- 4. Please give one way of finding out the GPIB address of the multimeter.
- 5. Derive the transfer function for the circuit in Figure 6. What is the resonant frequency equal to? What is the quality factor? What is the bandwidth?