## UNIVERSITY OF CALIFORNIA, BERKELEY

## EE100 Summer 2008 Lab 6

## **RC** Filters Prelab

Name:	
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?