

EE 102: Signal Processing and Linear Systems

**Homework #10: Filter Design**

Name: \_\_\_\_\_

Submission Date: \_\_\_\_\_

**Problem 1** Low-pass filter:  $h(t)$  impulse response, compute convolution. Plot. Low-pass filter:  $H(w)$  design. Apply multiplication. Plot. Observe that both give you the same thing.

**Problem 2** Filter design to meet specs given by the user.