## Spring 2024 – ECE 3020 Homework 8

Due: 03/06/2024

- 1. For the following filters, assume the op-amps are ideal.
  - i. Derive the transfer functions, T(s)
  - ii. If  $R_1=10k\Omega$ ,  $R_2=100k\Omega$ ,  $C_1=1\mu F$ ,  $C_2=0.1\mu F$ ,  $L_1=1nH$ , and  $L_2=1\mu H$ , plot the magnitude and phase responses of each filter.

