ECE2150J

Introduction to Circuits

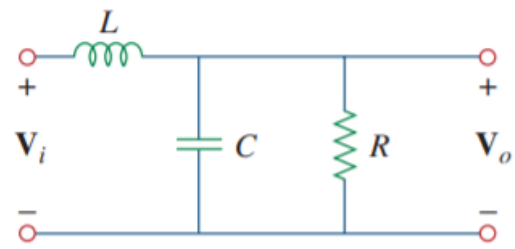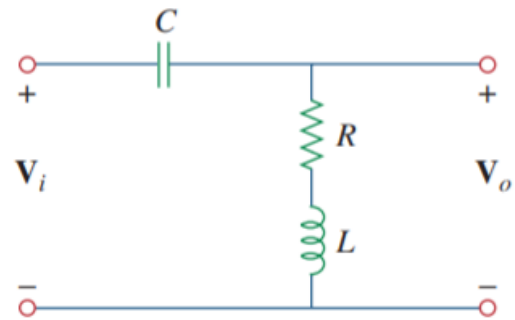# Homework 8

Please name your file as $NAME\_HW8\_STUDENTID$.

In order to receive full marks, you shall write all the intermediate steps of calculation or proof unless otherwise indicated.

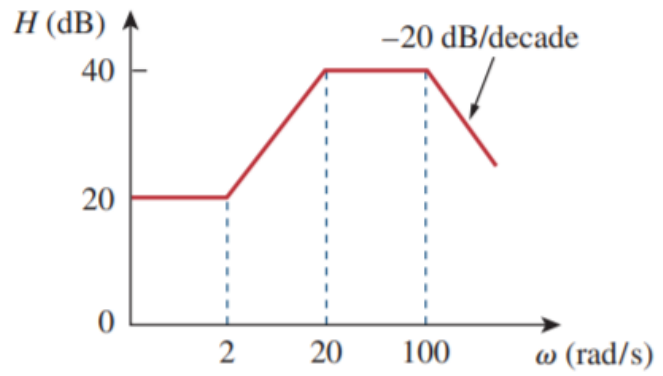**Exercise 8.1** (30%) Find the transfer function $H(\omega) = V_o/V_i$ of the circuits.

(a)

(b)

Exercise 8.2 (30%) Sketch the bode plots for

$$H(\omega) = \frac{250(j\omega + 1)}{j\omega(-\omega^2 + 10j\omega + 25)}$$

Exercise 8.3   (30%) Find the transfer function $H(\omega)$ with the Bode magnitude plot

Exercise 8.4 (10%) Congratulations! You've finished the last assignment of this course. You can leave whatever you want here. It's good to be with you in VE215. Good luck in the final exam!