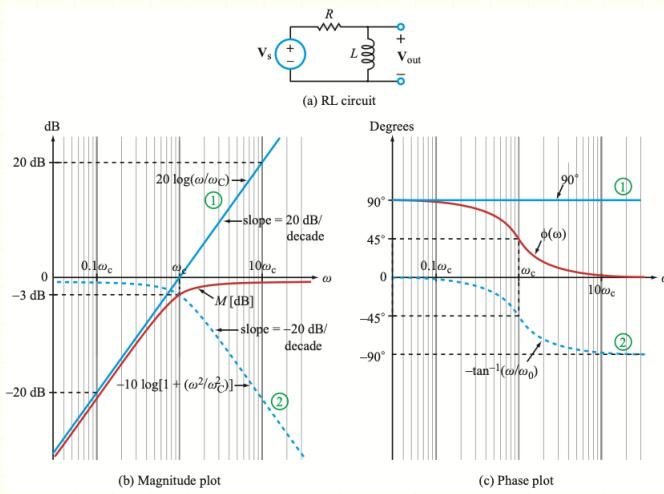


Problem 6.8 :**Given:**

Find: The magnitude and phase plots for the following voltage transfer functions. (Start with the asymptotic plots learned in class).

a. $H(\omega) = \frac{j100\omega}{10+j\omega}$

b. $H(\omega) = \frac{0.4(50+j\omega)^2}{(j\omega)^2}$

c. $H(\omega) = \frac{(40+j80\omega)}{(10+j50\omega)}$

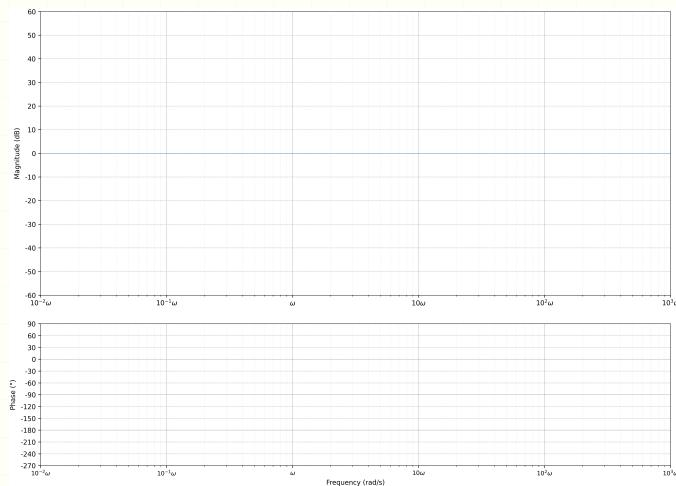
d. $H(\omega) = \frac{(20+j5\omega)(20+j\omega)}{j\omega}$

e. $H(\omega) = \frac{30(10+j\omega)}{(200+j2\omega)(1000+j2\omega)}$

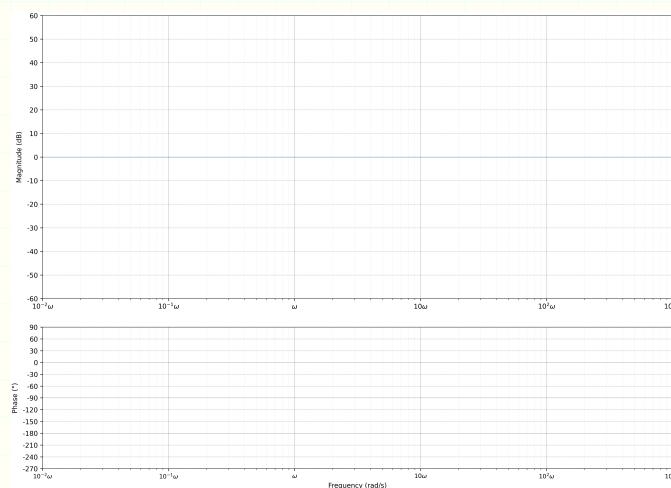
f. $H(\omega) = \frac{j100\omega}{(100+j5\omega)(100+j\omega)^2}$

g. $H(\omega) = \frac{(200+j2\omega)}{(50+j5\omega)(1000+j\omega)}$

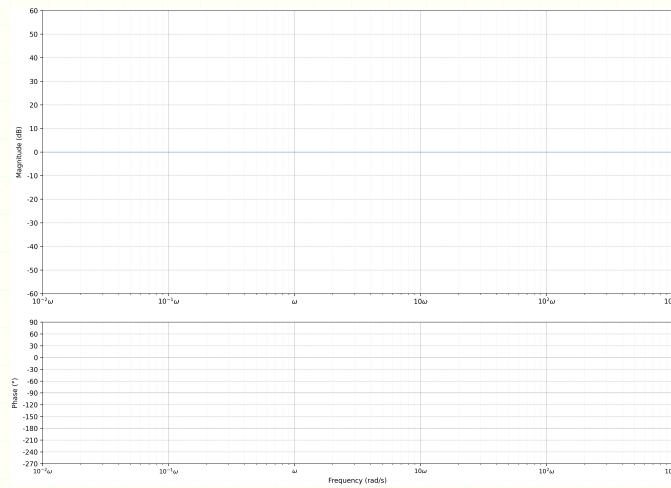
a.



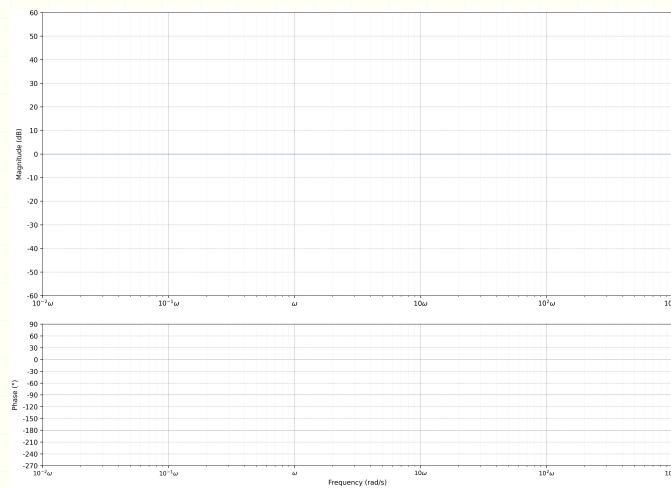
b.



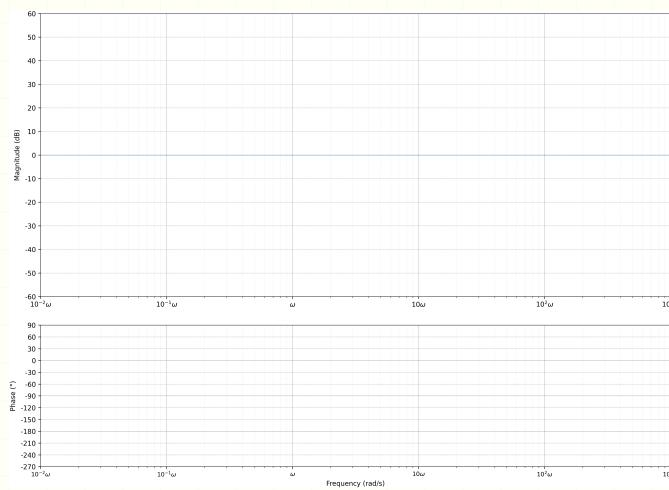
c.



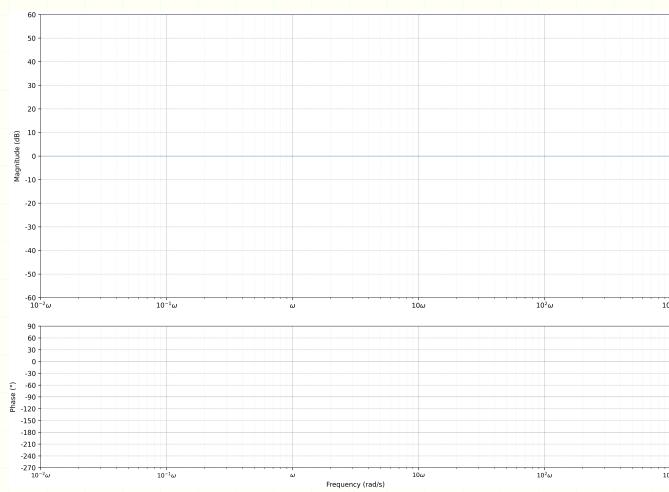
d.



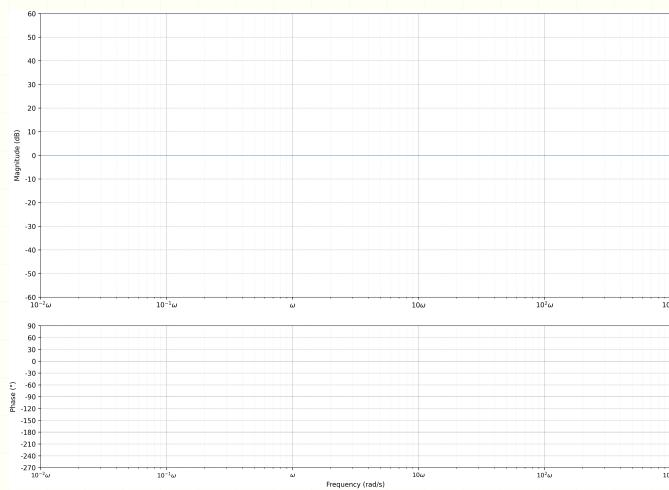
e.



f.



g.



Problem 6.18 :**Given:****Find:**

Problem 6.19 :**Given:****Find:**