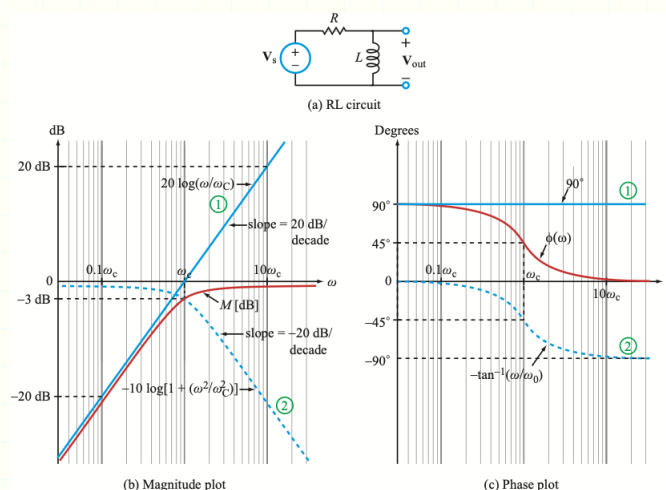


Problem 6.8 :**Given:**

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

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

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

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

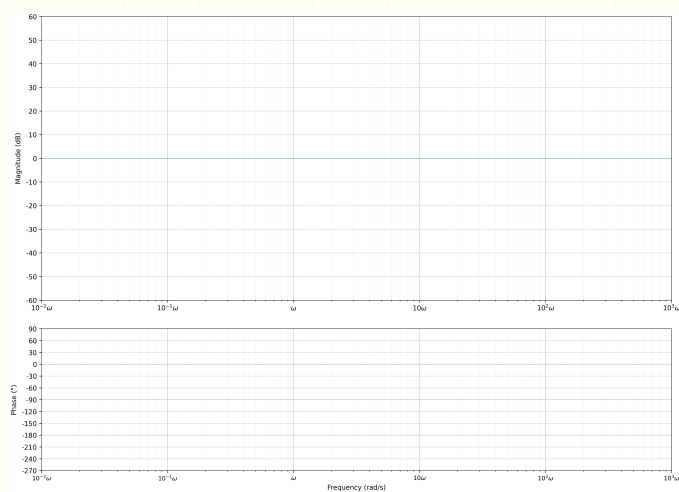
d. $\mathbf{H}(\omega) = \frac{(20+j5\omega)(20+j\omega)}{j\omega}$

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

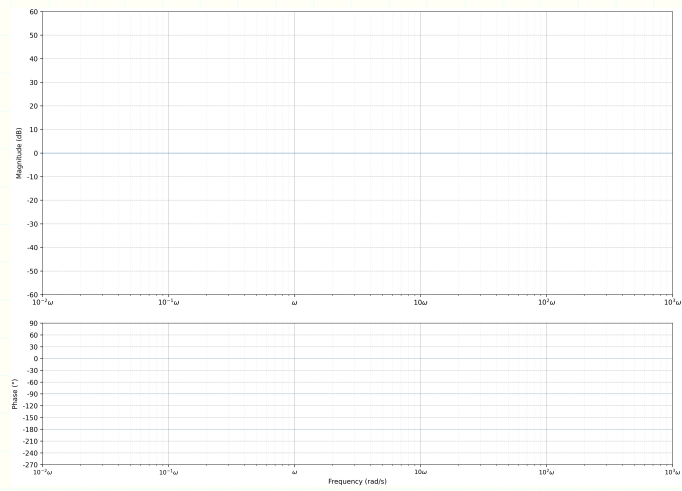
f. $\mathbf{H}(\omega) = \frac{j100\omega}{(100+j5\omega)(100+j\omega)^2}$

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

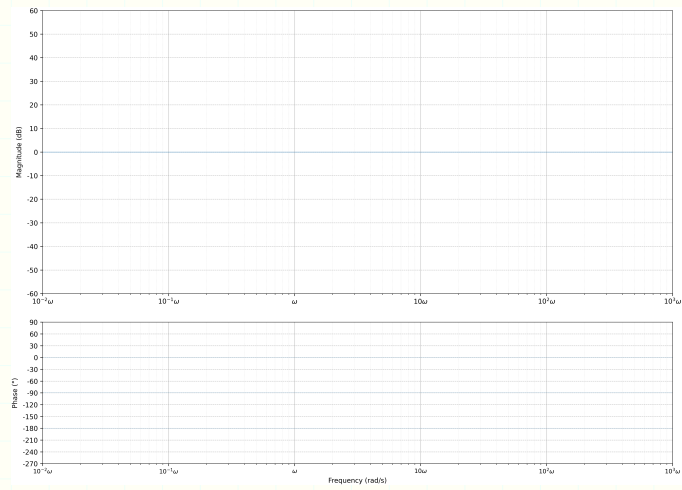
a.



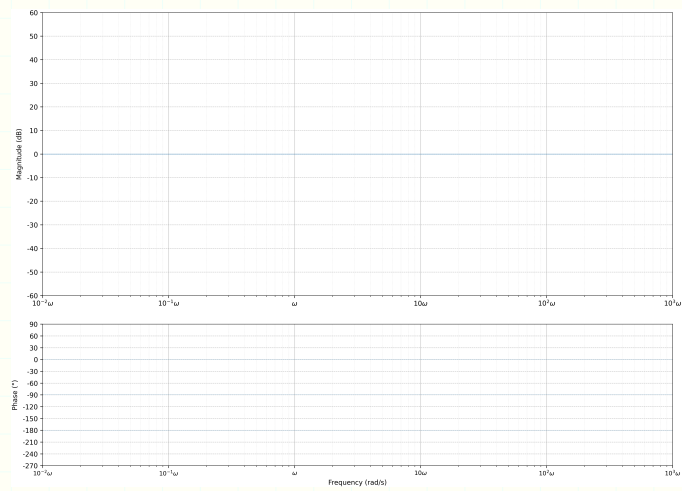
b.



c.

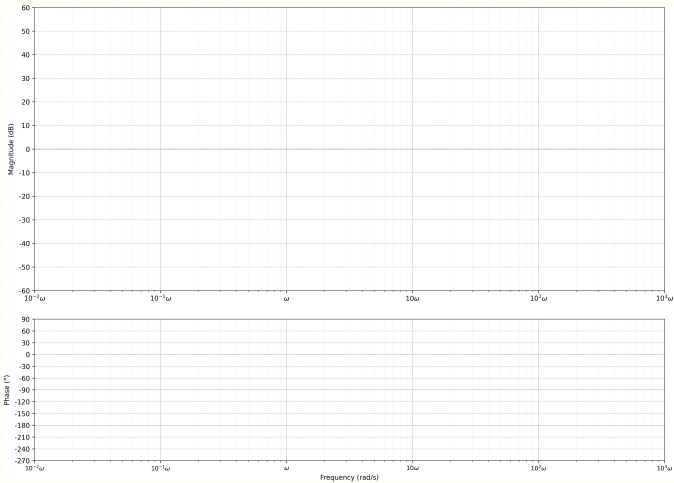


d.

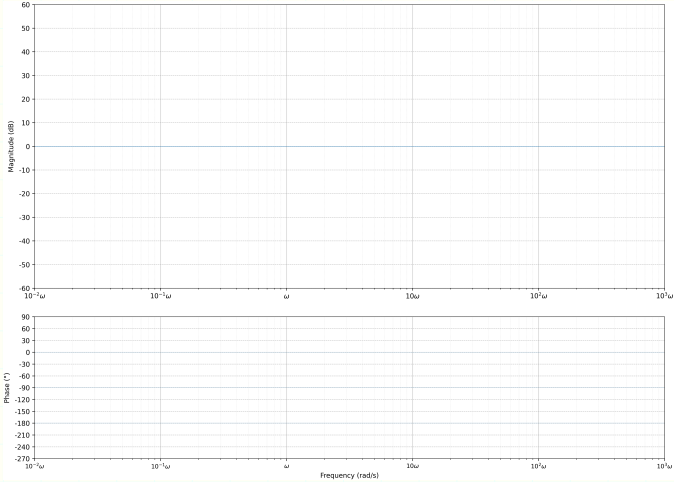


e.

f.



g.



	December 1, 2025	ECE 3620, Hw 12	Petersen, Kelson	4/5
	<p>Problem 6.18 :</p> <p>Given:</p> <p>Find:</p>			

	December 1, 2025	ECE 3620, Hw 12	Petersen, Kelson	5/5
	<p>Problem 6.19 :</p> <p>Given:</p> <p>Find:</p>			