1. Determine the transfer function \( V_o / V_i \). **Hint:** Think Thevenin.

b. Plot \(|V_o / V_i|\) versus \(\omega\).

c. Find the cutoff frequency, \(\omega_c\).

2. Determine the transfer function \( V_o / V_i \). **Hint:** Consider a voltage divider.

b. Plot \(|V_o / V_i|\) versus \(\omega\).

c. Find the cutoff frequency, \(\omega_c\).

3. For the bandpass filter shown above, calculate the following quantities:

a. \(\omega_o\)

b. \(f_o\)

c. \(\omega_{c1}\) and \(\omega_{c2}\)

d. \(\beta\) and \(Q\)
For the band reject filter shown above, calculate the following quantities: **Hint: Think Thevenin.**

a. $\omega_0$
b. $\omega_{C1}$ and $\omega_{C2}$
c. $\beta$
d. $Q$