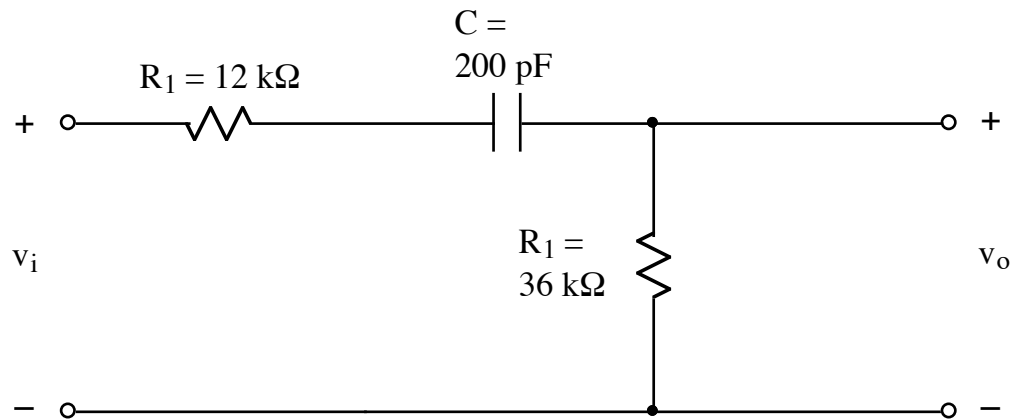
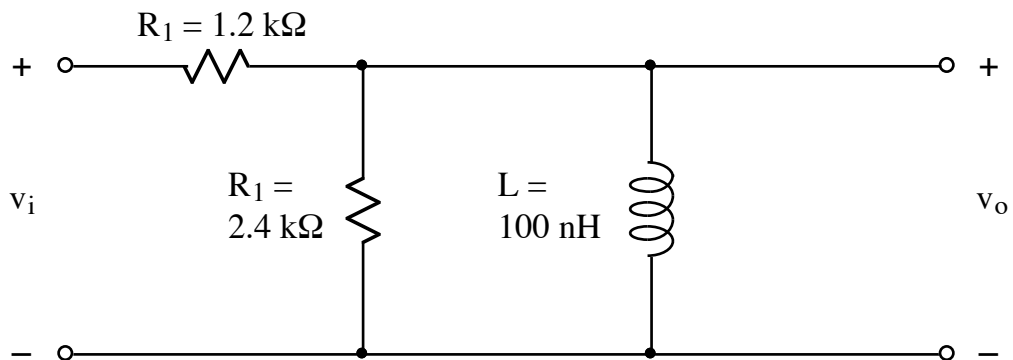


1.



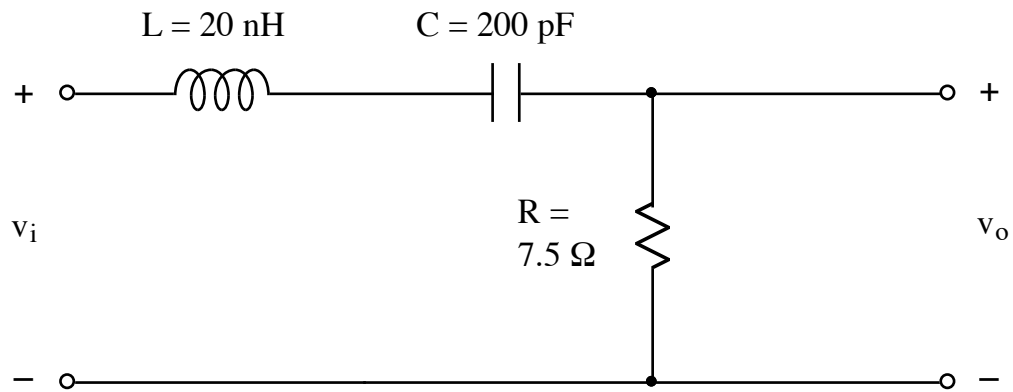
- Determine the transfer function V_o/V_i . **Hint:** Reverse the order of R_1 and C , and suppose the output were tapped from the point between C and R_1 . Then use a voltage divider.
- Plot $|V_o/V_i|$ versus ω .
- Find the cutoff frequency, ω_c .

2.



- Determine the transfer function V_o/V_i . **Hint:** Use a Thevenin equivalent to reduce the two R 's to a single R .
- Plot $|V_o/V_i|$ versus ω .
- Find the cutoff frequency, ω_c .

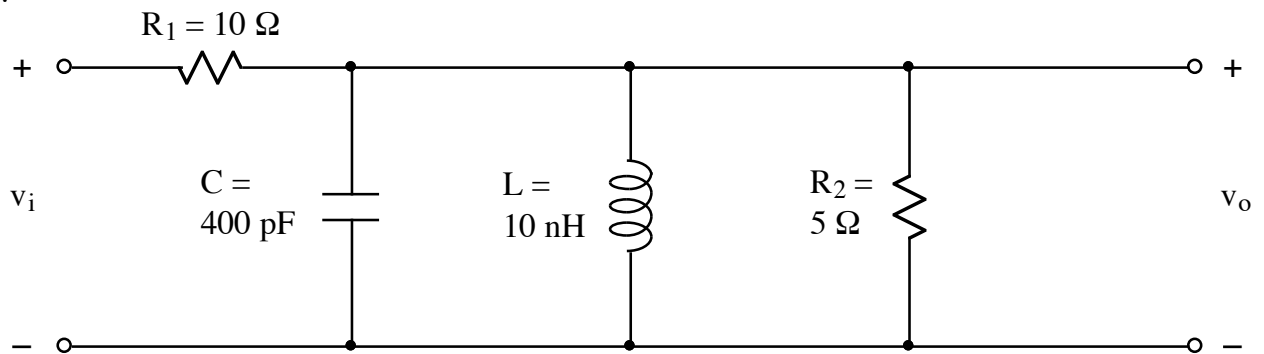
3.



For the band-pass filter shown above, calculate the following quantities:

- ω_o
- f_o
- ω_{C1} and ω_{C2}
- β and Q

4.



For the band-pass filter shown above, calculate the following quantities:

Hint: Use a Thevenin equivalent for the R's.

- ω_o
- ω_{C1} and ω_{C2}
- β
- Q