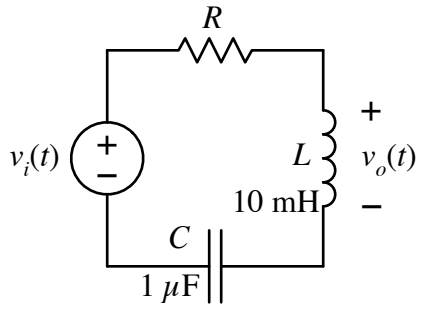
EE 230 — HW 2.27 Name_____



For the second-order circuit shown at right, calculate the transfer function (in symbols). What type of filter is it?

If $R = 300\ \Omega$, what are f_o, Q_P, and G_o for the filter?

Repeat for $R = 50\ \Omega$. What value of R is needed to make $Q_P = 0.707$ (maximally flat)?

$T(s) =$ _____

type: _____

$R = 300\ \Omega$: $f_o =$ _____; $Q_P =$ _____; $G_o =$ _____

$R = 50\ \Omega$: $f_o =$ _____; $Q_P =$ _____; $G_o =$ _____

R for $Q_P = 0.707$: _____

Write your answers — and whatever work will fit — on this sheet. Staple any sheets with additional work behind.