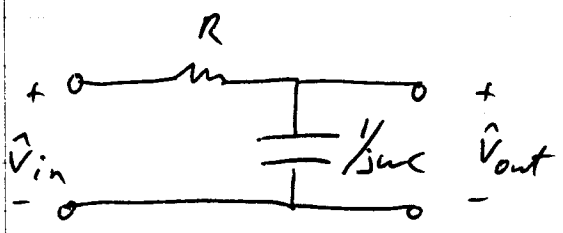
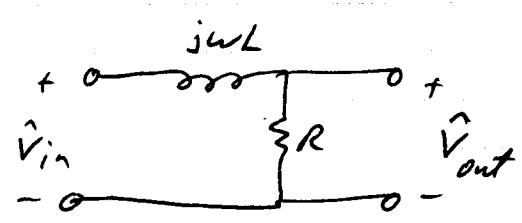


INSIGHTS FOR FILTER DESIGN

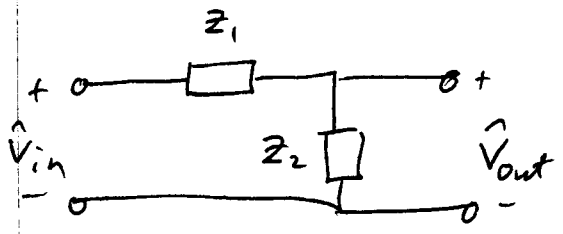


$H_1(jw) =$



$H_2(jw) =$

Both filters are voltage dividers of the general form

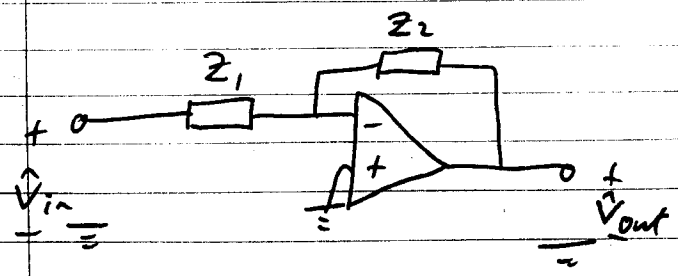


$H(jw) =$

In RC circuit:

In RL circuit:

Hint for LAB: What can you choose for  $Z_1$  +  $Z_2$ ?



$H(jw) = \frac{\hat{V}_{out}}{\hat{V}_{in}} = -\frac{Z_2}{Z_1}$