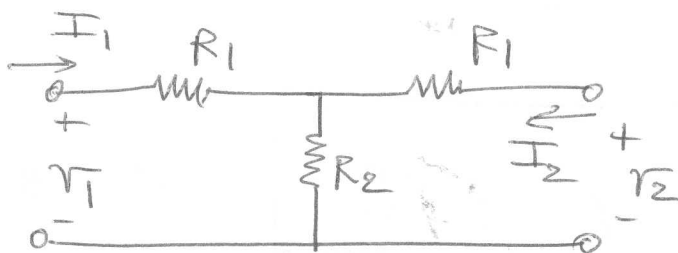


EECE 352 - Homework 7 - due Friday, Feb. 13 in class

(I) Calculate the z -parameters for the following feedback network.



z_{ij} 's are defined as follows

$$\begin{bmatrix} V_1 \\ V_2 \end{bmatrix} = \begin{bmatrix} z_{11} & z_{12} \\ z_{21} & z_{22} \end{bmatrix} \begin{bmatrix} I_1 \\ I_2 \end{bmatrix}$$

(1) To get full credit, draw the small circuits you need to consider to calculate each z_{ij} . Proceed the same way we did in class to calculate the h_{ij} 's and g_{ij} 's for the series-shunt and shunt-series configurations.

(2) Calculate the numerical values AND give the units of the z_{ij} 's if $R_1 = 17 \Omega$ and $R_2 = 100 \text{ k}\Omega$

(II) Repeat problem above. This time, calculate the y -parameters.