

EE 4474/5574

Homework Problem #14

For a system described by the following equation:

$$\begin{bmatrix} I_1 \\ I_2 \end{bmatrix} = \begin{bmatrix} 0.2 & 0.5 \\ 0.5 & 0.1 \end{bmatrix} \begin{bmatrix} V_1 \\ V_2 \end{bmatrix}$$

determine the input impedance when a 10Ω resistor is connected to the output terminals. Use the SNAP program to check your result.