

### Special Problem 4.2 - 4

The 3-port network below has the impedance matrix:

$$\mathbf{Z} = \begin{bmatrix} 1 & j & 1 \\ j & 2 & 2 \\ 1 & 2 & 3 \end{bmatrix} \quad [K\Omega]$$

For the circuit below, determine all three voltages and all three currents.

