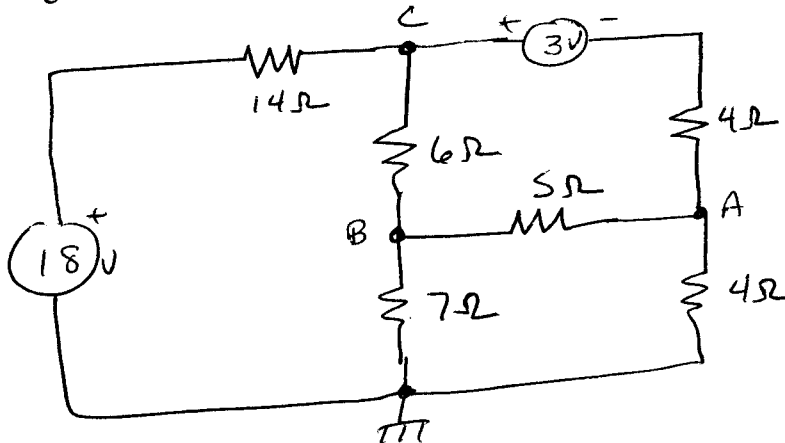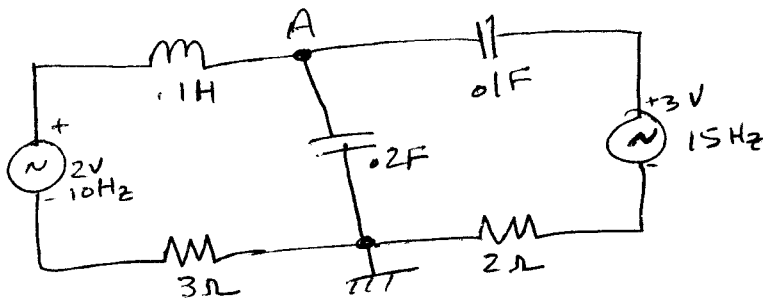# Homework #5

Due next Wed

1. For the following network -- perform either node or mesh analysis to determine the operating point voltages.

$V(A)$?
$V(B)$?
$V(C)$?

2. For the following network, use impedances to determine the voltage and phase for the indicated points.

Find $V(A(t))$
Given: Both sources
are ϕ @ $t=0$ & Rising

3. Consider the following linear differential system, find a general solution:

$$\begin{bmatrix} 2 & -3 \\ 4 & 6 \end{bmatrix} \begin{bmatrix} y_1 \\ y_2 \end{bmatrix} = \begin{bmatrix} y'_1 \\ y'_2 \end{bmatrix}$$