

## Sheet (1)... Review

- Convert the current source of Figure (1) into an equivalent voltage source.

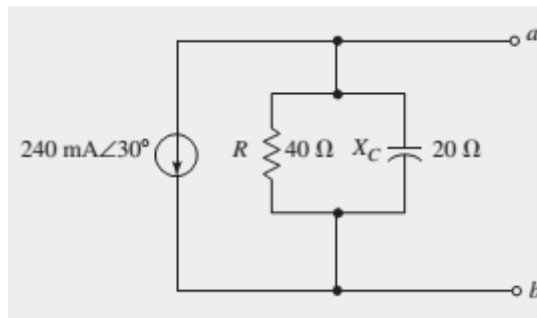


Figure (1)

- Given the circuit of Figure (2), write the loop equations and solve for the loop currents.

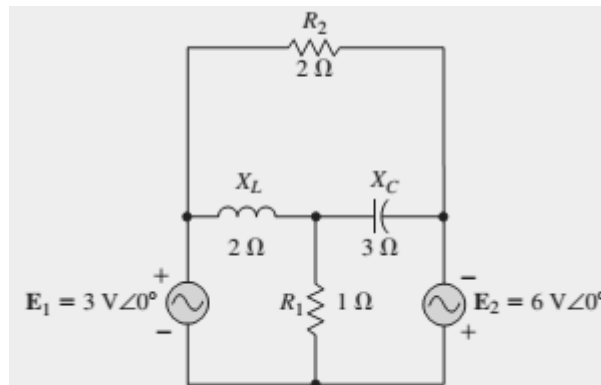


Figure (2)

- Use nodal analysis to determine the voltage  $V$  for the circuit of Figure (3).

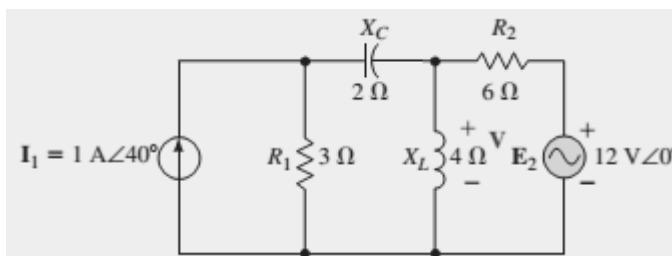


Figure (3)

- Determine the  $Y$  equivalent of the  $\Delta$  network shown in Figure (4), show how to redistribute the  $\Delta$  network to return in the form of  $Y$ .

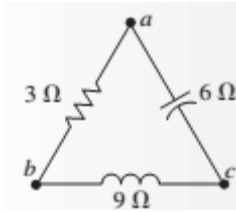


Figure (4)

5. Consider the circuit of Figure (5), Find  $V_R$  using the superposition theorem.

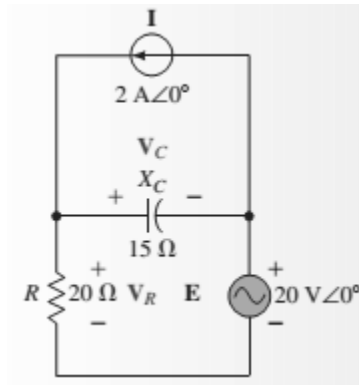


Figure (5)

6. Determine the Thévenin equivalent circuit external to  $Z_L$  in the circuit in Figure (6)

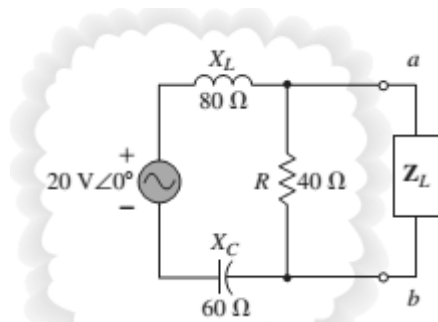


Figure (6)

7. Repeat the previous problem but by using the Norton equivalent.

*Good Luck*