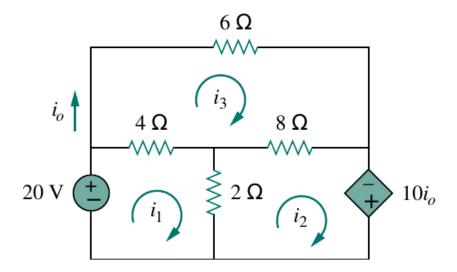
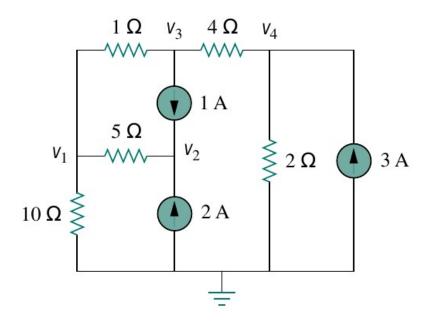
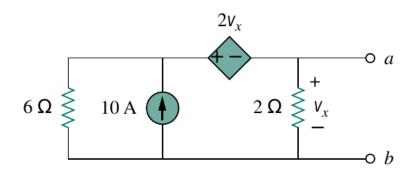
1 - Using mesh analysis, find i_0 in the given circuit (write all mesh equations to obtain full point)



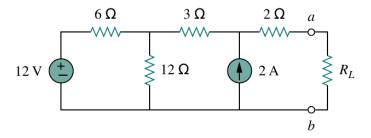
2 - Obtain the node voltage eqautions, in matrix form, for the circuit given below



3 – Find the Norton equivalent circuit for the circuit given below



4 - For the circuit given below find the value of RL for maximum power transfer, also calculate the maximum power transfered



$5-Find\ v(t)$ for t>0 in the given circuit. Assume the switch has been open for a long time and is closed at t=0. Calculate v(t) at t=0.5 sec.

