

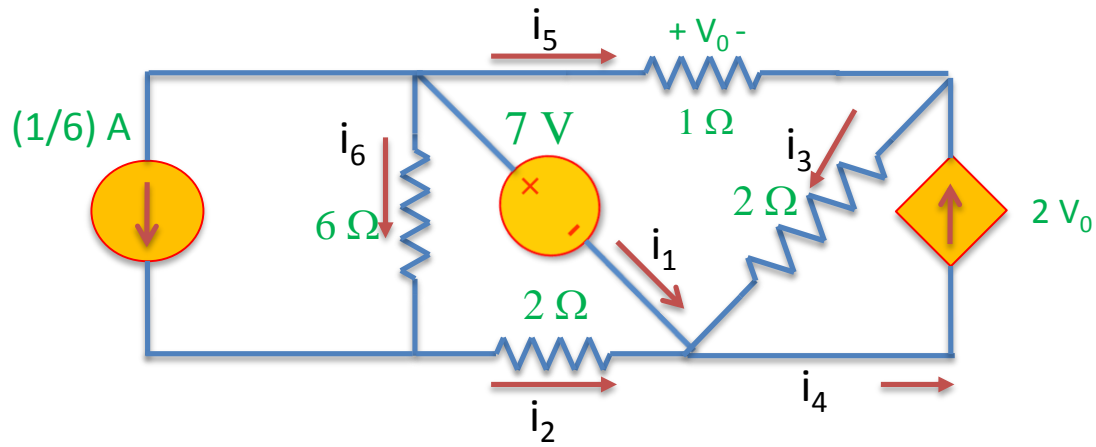
EECS 70A: Network Analysis

Homework #3

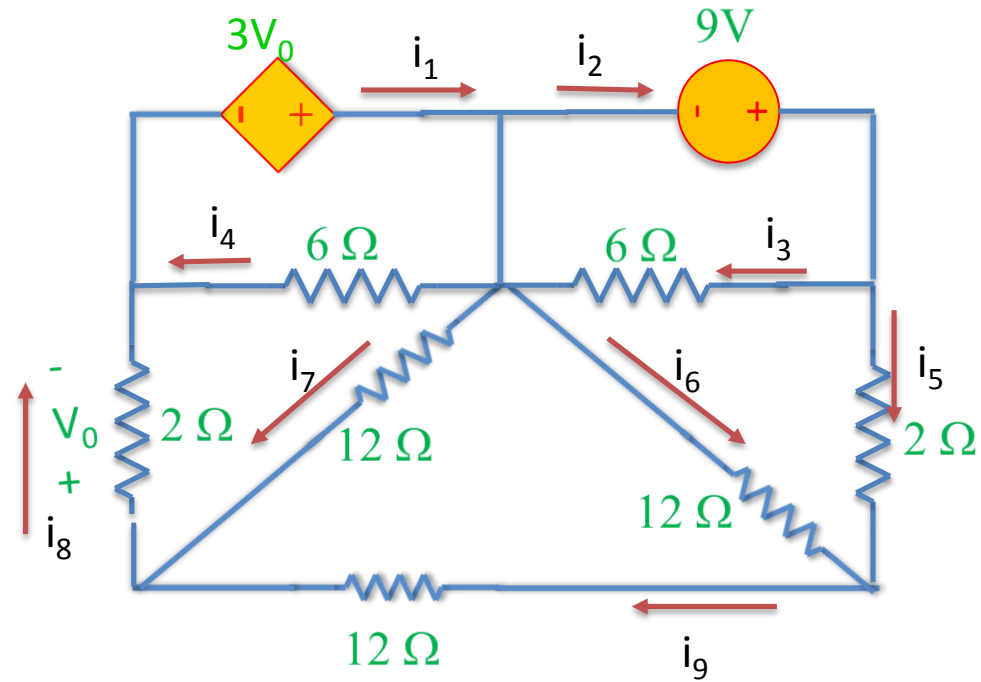
- The homework is due Thursday 5/08/2014 at 5:30pm.
- You can choose either way to turn in your homework.
 - 1) Turn it in during discussions (Highly recommended)
 - 2) Turn it in during TA or Grader's office hour
 - 3) Slide it under TA's lab office door (Any time before deadline @EH5109)
- Note: lab location is different from office hour location.

Problem 1:

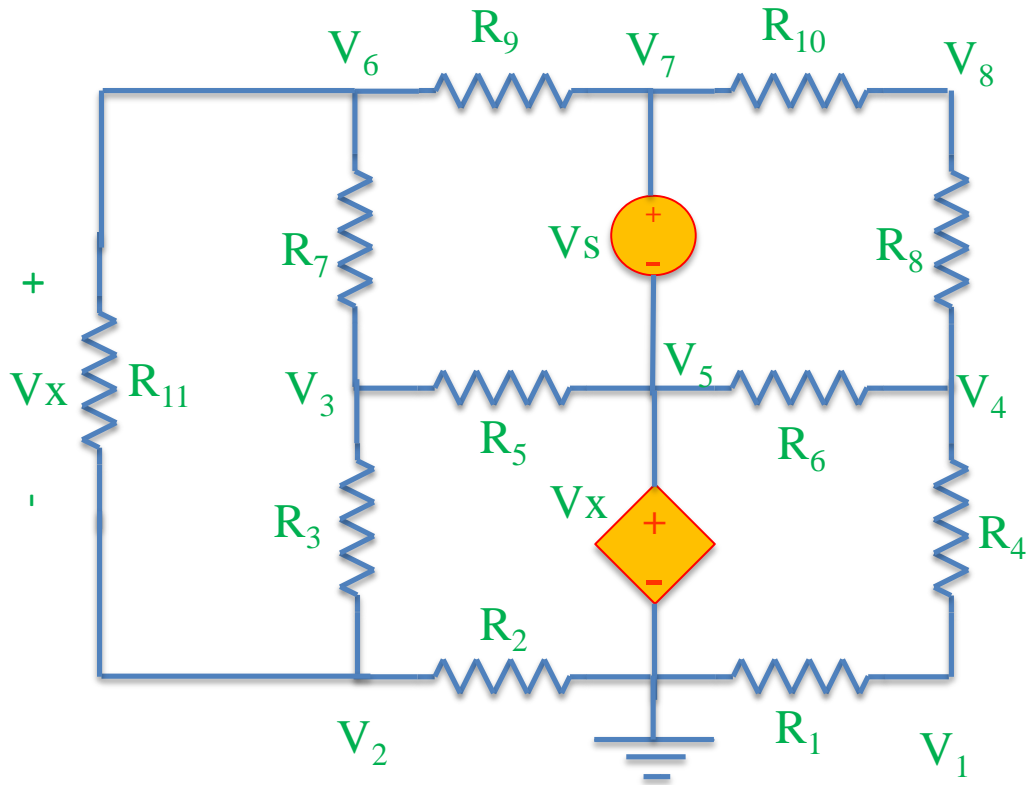
- Use nodal analysis to find all node voltages.
- Find all the currents.



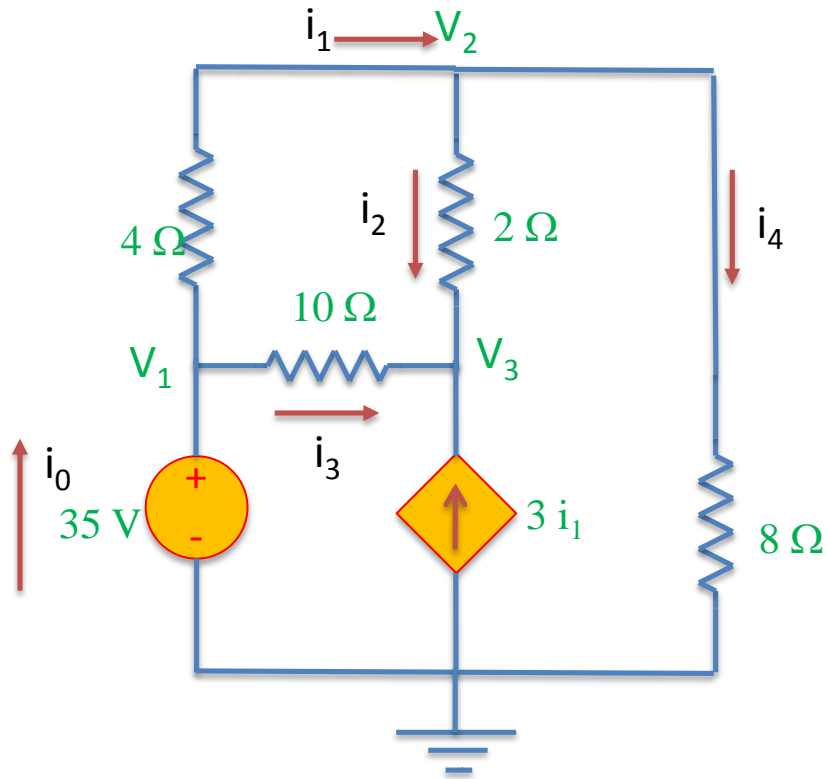
Problem 2: Use nodal analysis to find all the node voltages and currents



Problem 3: Write all the node voltage equations and put them in the matrix form. You don't need to solve

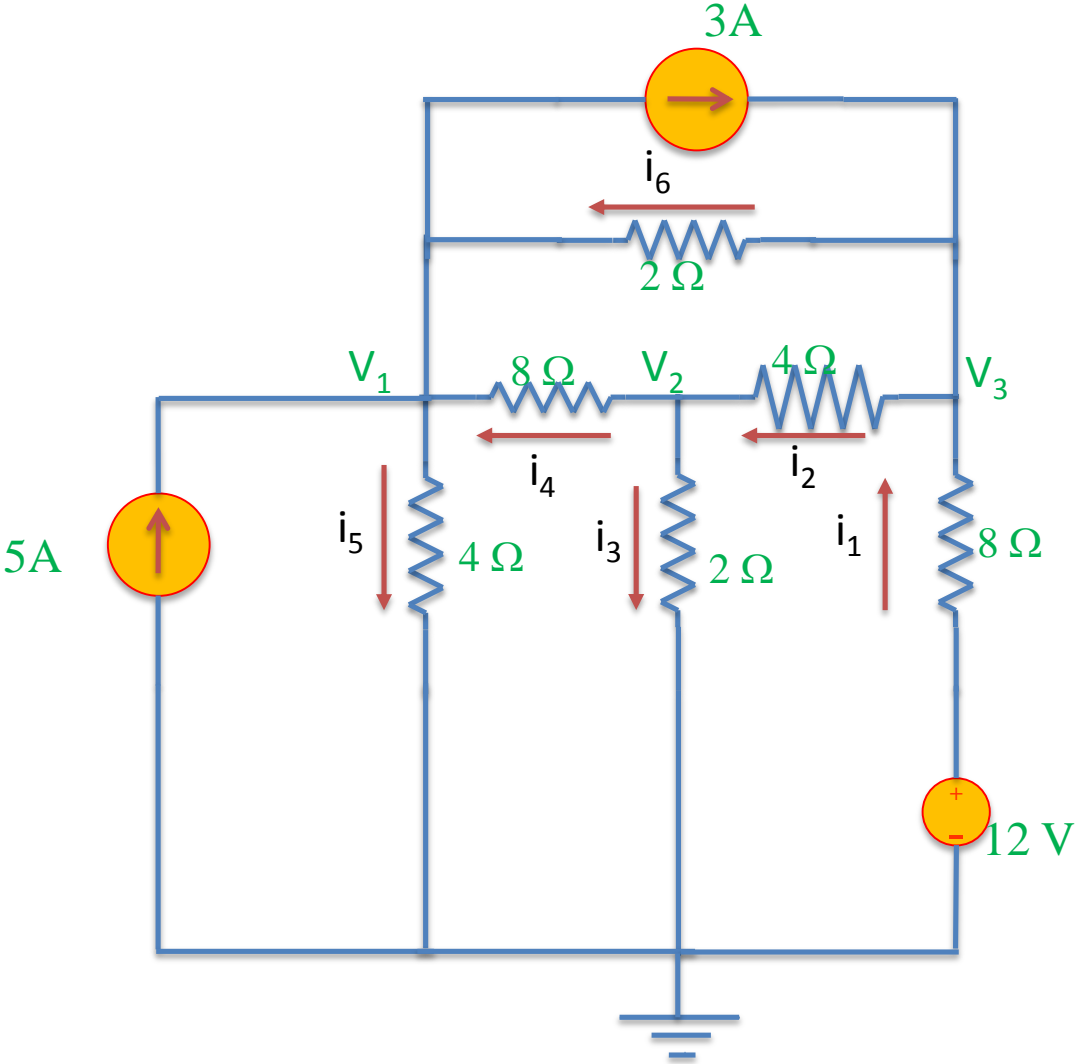


Problem 4: use mesh analysis to find all the currents and node voltages.

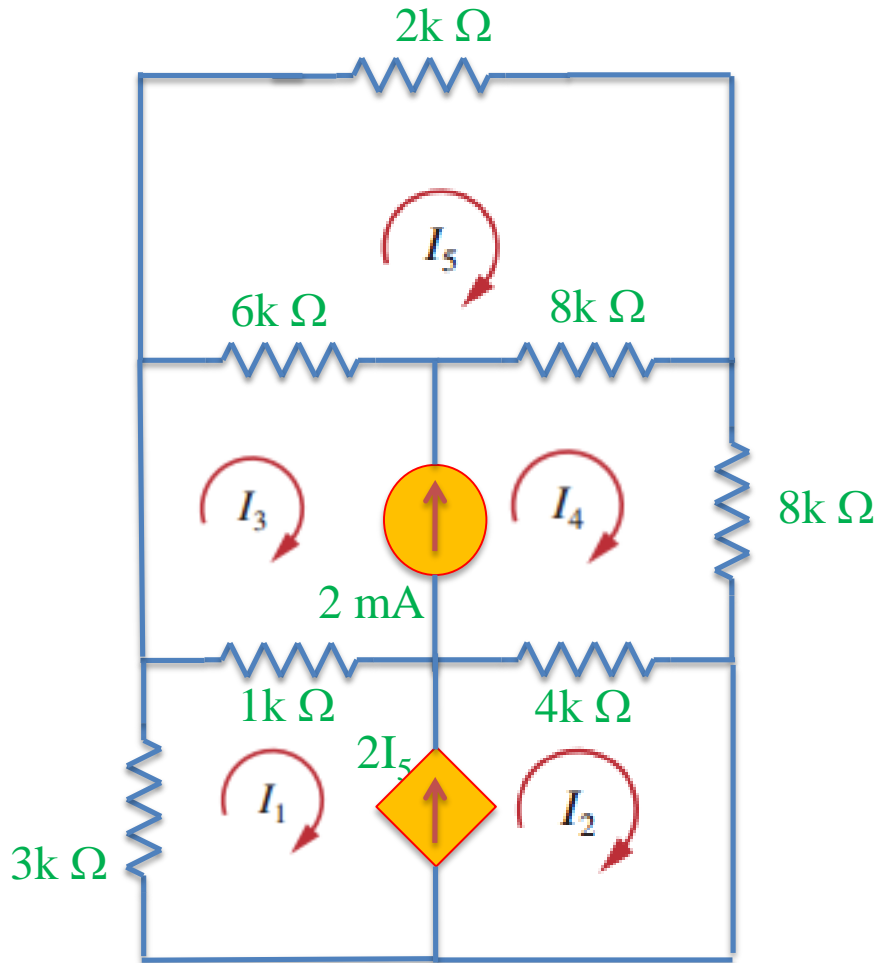


Problem 5:

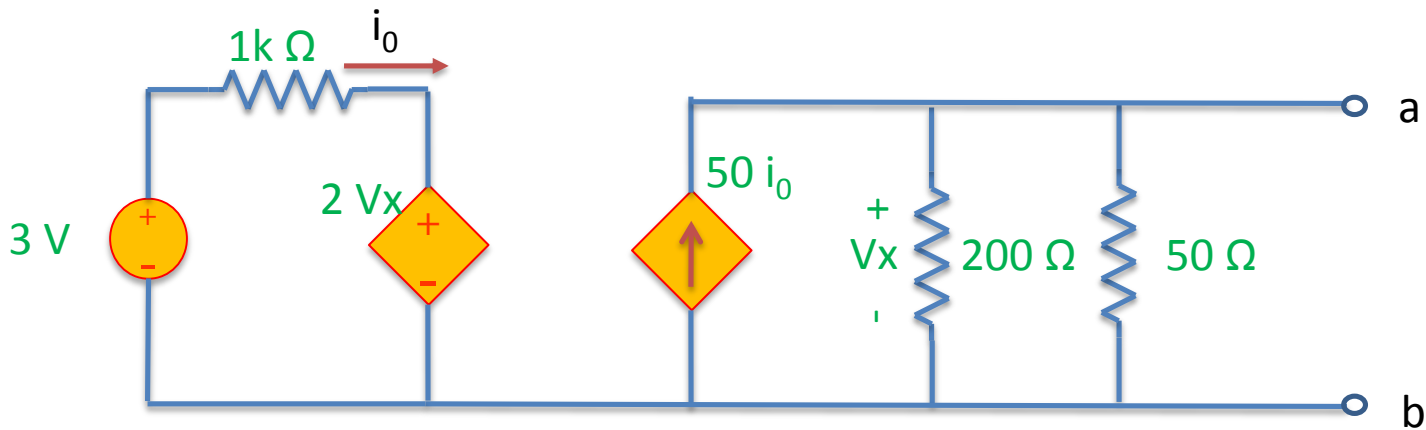
-Use mesh analysis to find resistor currents and the all node voltages



Problem 6: Write all the mesh current equations and put them in the matrix form. You don't need to solve



Problem 7: Obtain the Thevenin and Norton equivalent as seen from a-b terminals:



Problem 8: Obtain the Thevenin and Norton equivalent as seen from a-b terminals:

