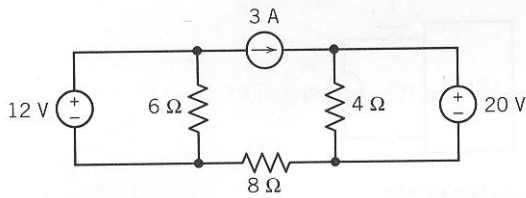
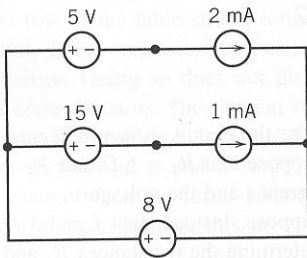


ENGR 204 Spring 2011 Homework#2 Due the day of test #1 by 4 pm.

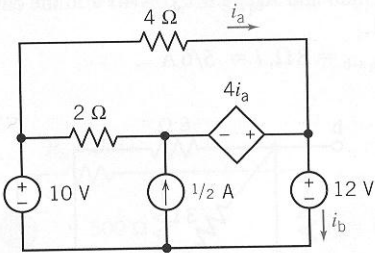
1) Find the power absorbed by each resistor in the circuit shown.



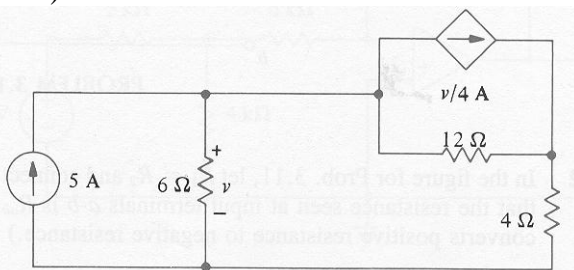
2) Find the power supplied by each current source in the circuit shown.



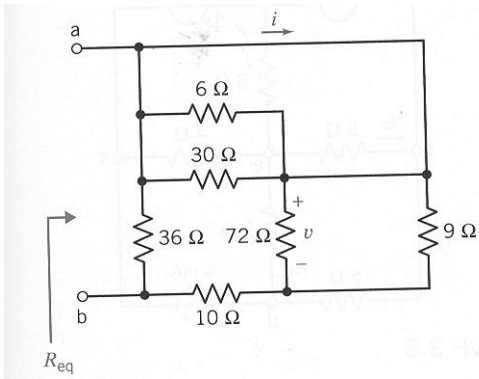
3) Computer analysis of the circuit shown shows that $i_a = -0.5$ mA and $i_b = -2$ mA. Was the computer analysis done correctly? Show proof.



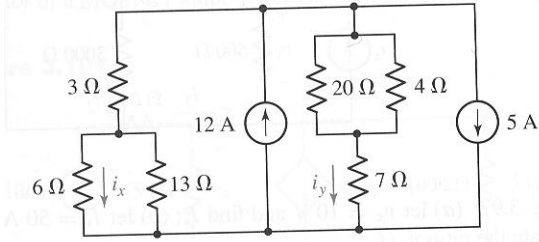
4) Find v in the circuit shown.



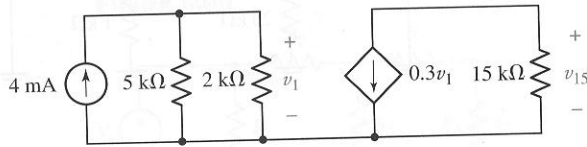
5) Find R_{eq} for the circuit shown. Then find i and v if $v_{ab} = 10$ volts.



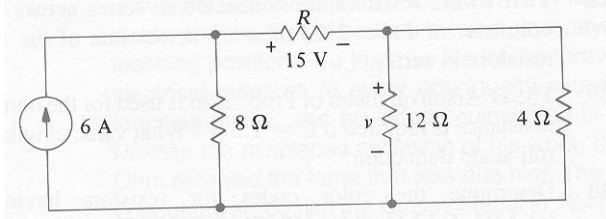
6) Find I_x and I_y in the circuit shown.



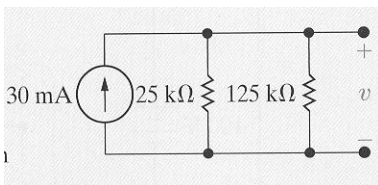
7) Find the power absorbed by the $15\text{ k}\Omega$ resistor in the circuit shown.



8) Find R and v by using current and voltage division for the circuit shown.



9) A D'Arsonval meter is rated 1 mA at 50 mV for full scale deflection and is used as a voltmeter with a full scale reading of 700 volts . What is the percentage of error in the meter reading compared to an ideal voltmeter if it is used to measure the voltage v in the circuit shown?



10) Find R_{in} for the circuit shown.

