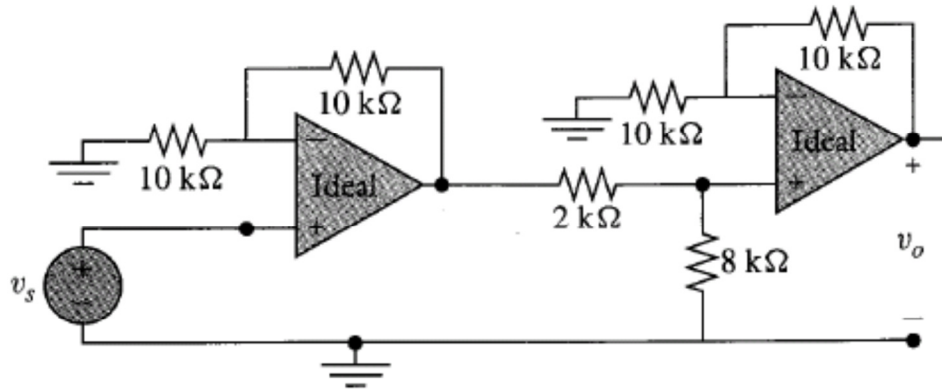
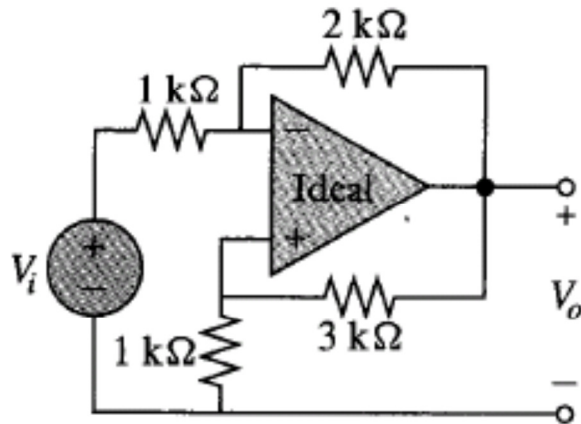


ENSC 220 (2013-2)  
HW 4 (Due June 17, 2013, 4:00pm)

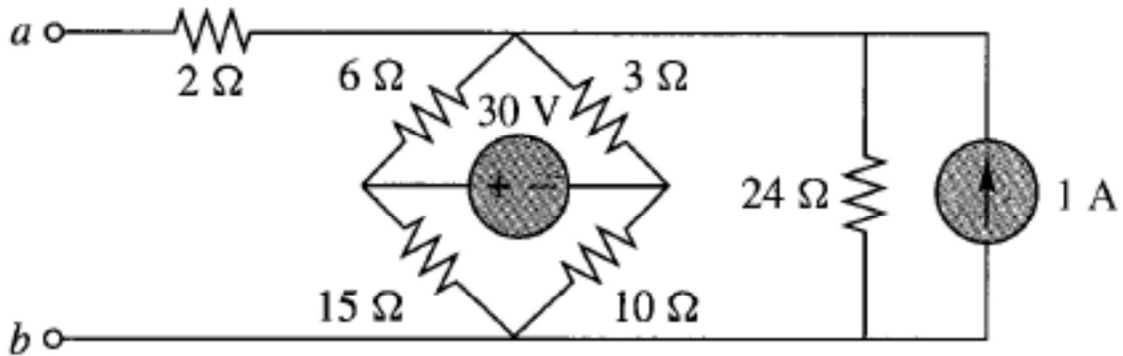
1. Determine the gain  $V_o/V_s$  for the circuit shown below. Consider the opamp to be ideal.



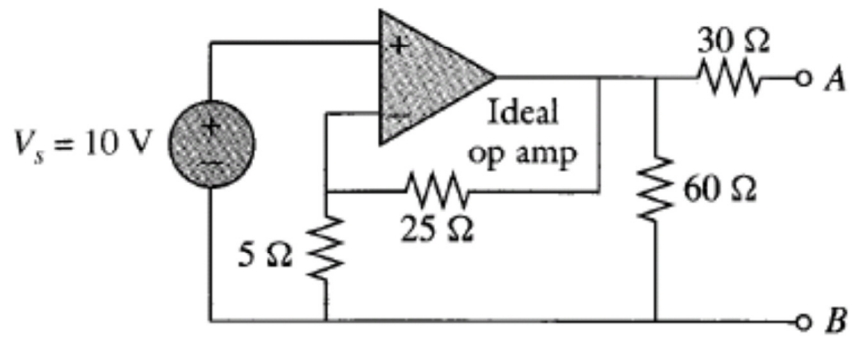
2. Determine the gain. Opamp is ideal.



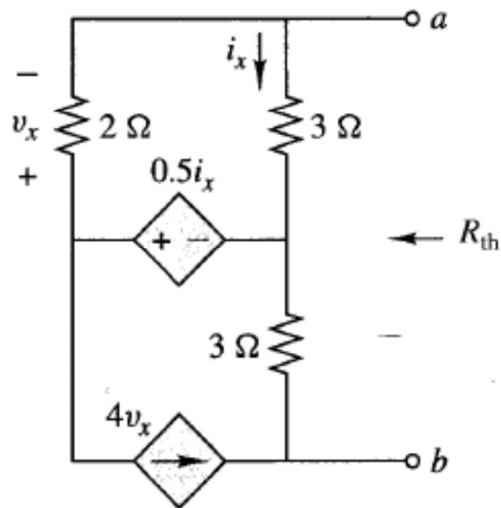
3. Determine the Thevenin Equivalent between nodes a and b.



4. Determine the Thevenin Equivalent between nodes A and B.



5. Determine the Thevenin Resistance between nodes a and b.



6. Using superposition determine  $V_{out}$ .

