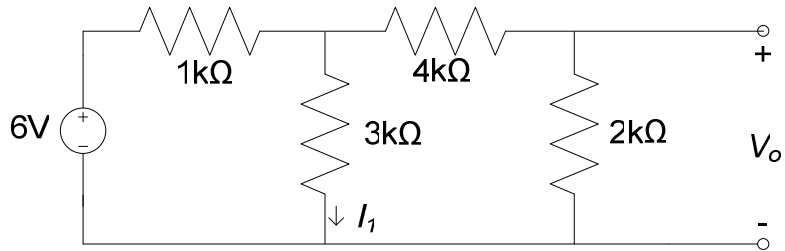
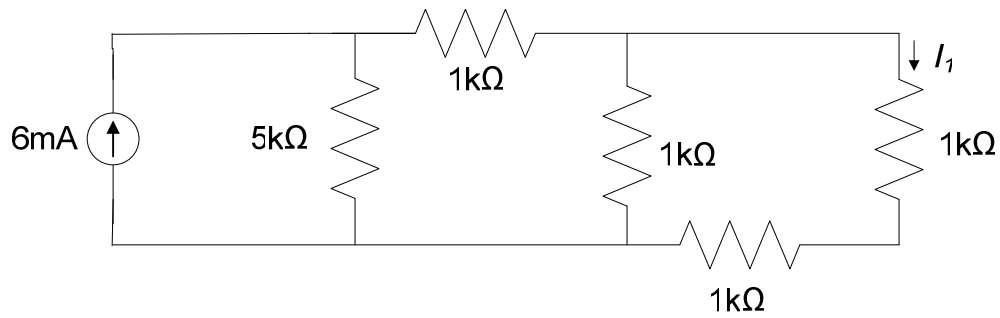


Problem Set 4 (Fall 2008)

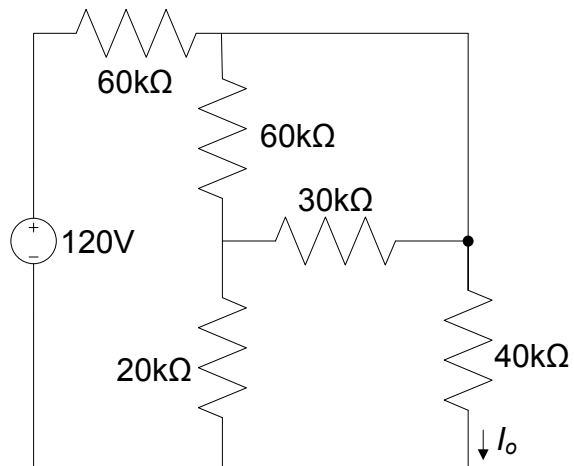
4.1 Find I_I and V_o in the circuit below.



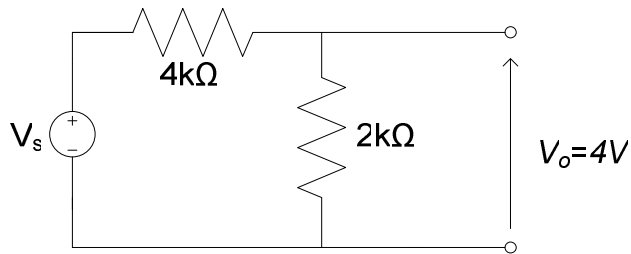
4.2 Find I_I in the circuit below.



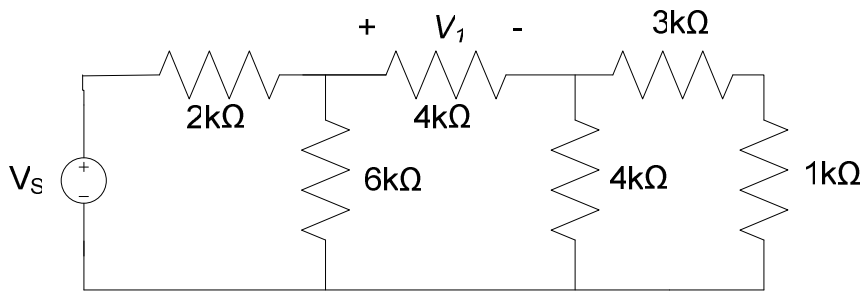
4.3 Find I_o in the circuit below.



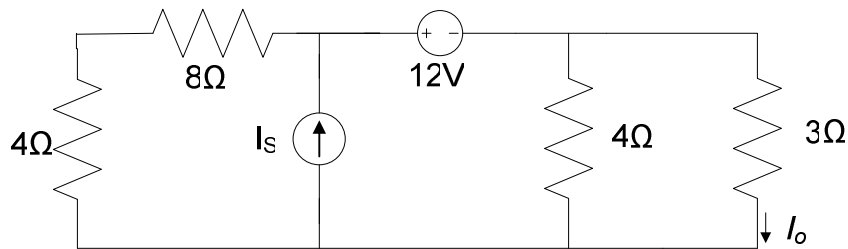
4.4 If $V_o = 4V$ in the circuit below, find V_S .



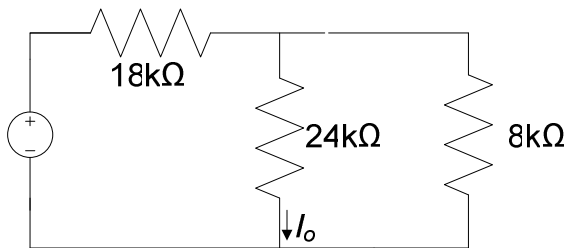
4.5 If $V_1 = 12V$ in the circuit below, find V_S .



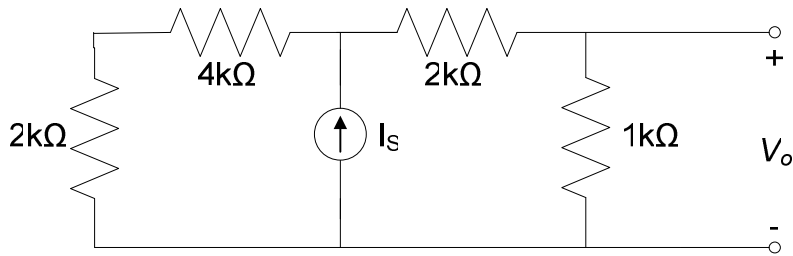
4.6 If $I_o = 2A$ in the circuit below, find I_S .



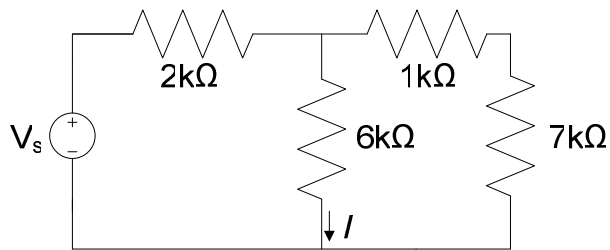
4.7 If the power absorbed by the $8k\Omega$ resistor in the network below is 36 mW , find I_o .



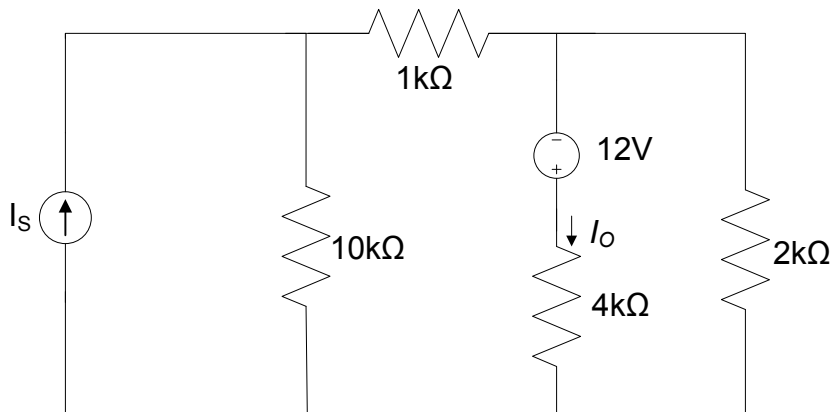
4.8 If $V_o = 6\text{V}$ in the circuit below, find I_s .



4.9 If $I = 4\text{mA}$ in the circuit below, find V_s .



4.10 If $I_o = 4\text{mA}$ in the circuit below, find I_s .



Everyone: This assignment is a continuation of the assignment #3 involving the routine application of KVL, KCL, R equivalents, voltage and current dividers, $v=iR$ and $p=vi$. Judicious step-by-step application of these techniques should yield answers without the need for solving simultaneous equations.