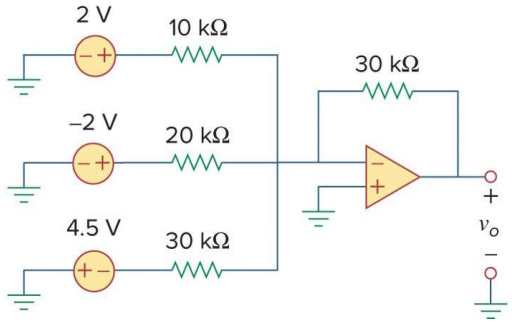
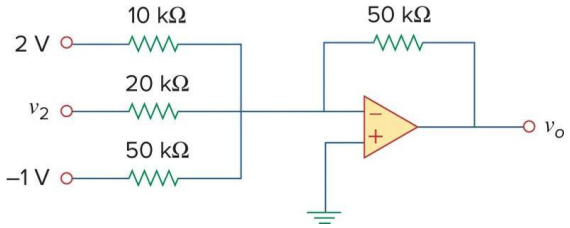
Electric Circuits

Homework Set 11

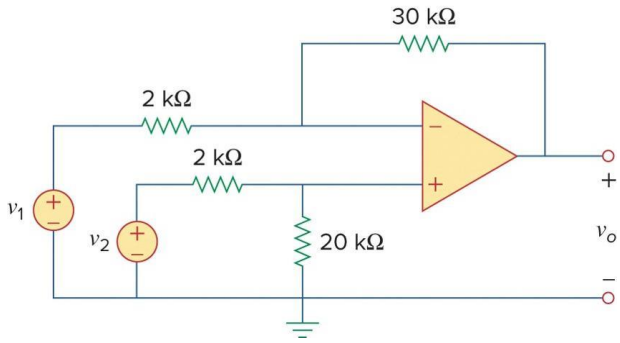
1. Determine the output of the summing amplifier shown below.



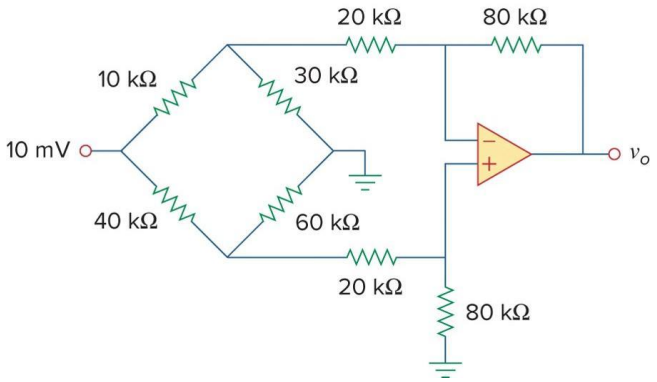
2. For the op-amp circuit below, determine the value of v_2 in order to make v_o = -16.5 V



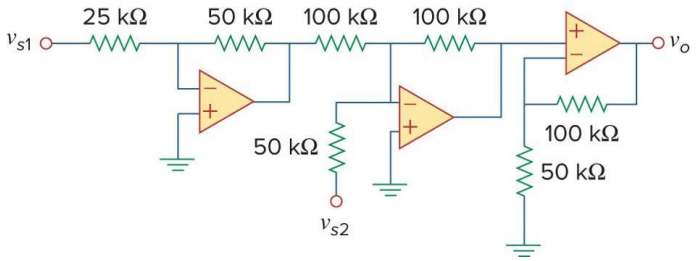
3. The following circuit is for a difference amplifier. Find v_o given that v_1 = 1 V and v_2 = 2 V.



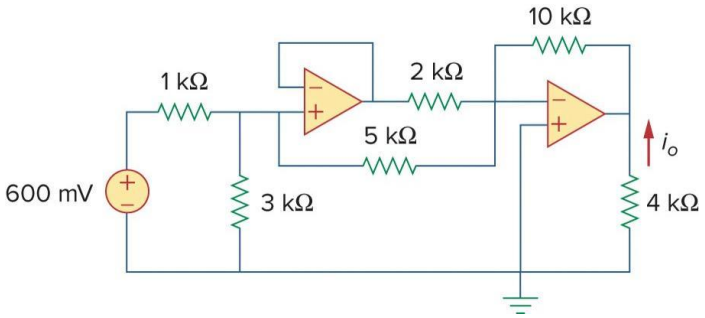
4. The circuit below is a differential amplifier driven by a Wheatstone bridge. Find v_o.



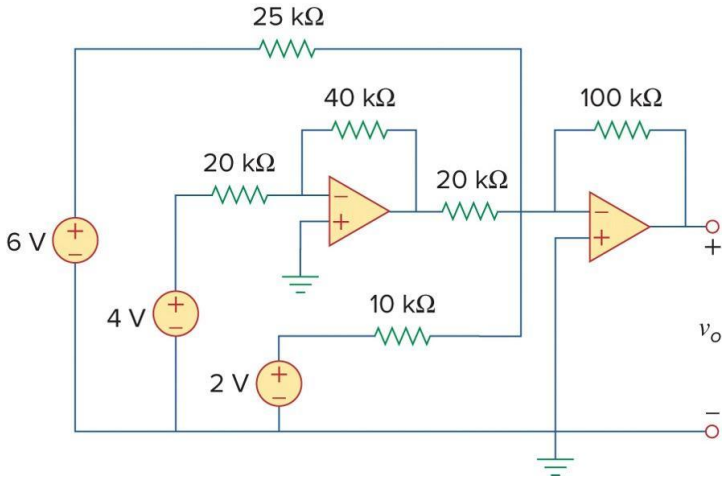
5. **Find an expression for v_o in terms of v_{s1} and v_{s2} in the op-amp circuit below.



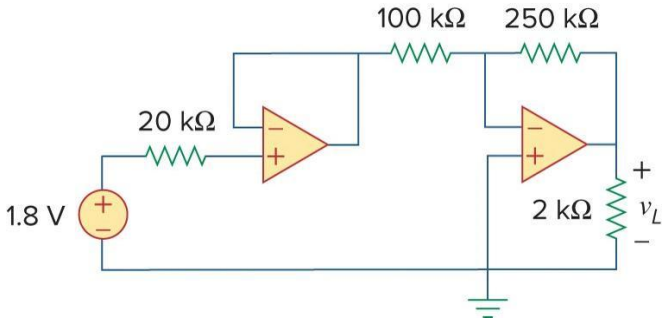
6. Calculate i_o in the following op-amp circuit.



7. For the circuit below, find v_o.

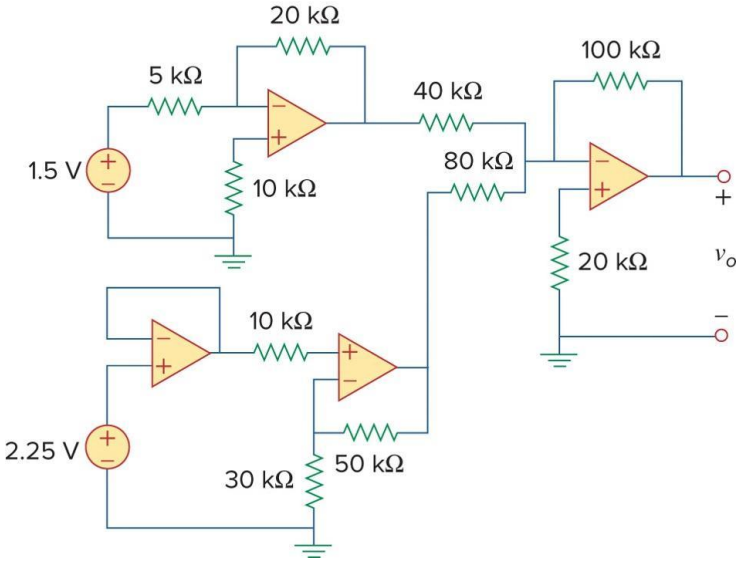


8. Find the load voltage v_L in the following circuit.

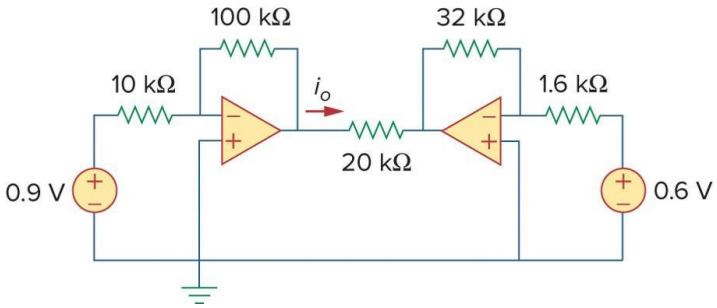


Use Micro-Cap or Multisim to solve the following circuits. **Be sure to print out your results to turn in.**

9. Evaluate the following circuit to find v_o.



10. Evaluate the following circuit to find i_o.



11. Evaluate the circuit below to find v_o.