EE 206: Homework #6
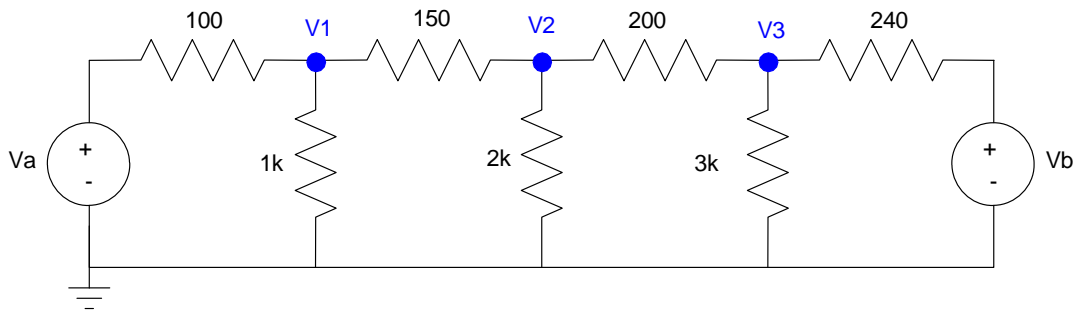
Superposition and Op Amps. Due Monday Feb 25th

Superposition

1) Use PartSim to determine the votlage at Y assuming Va = 10V, Vb = 0V.

2) Use PartSim to determine the voltage at Y assuming Va = 0V, Vb = 5V.

3) Use PartSim to determine the votlage at Y assuming V1 = 10V, Vb = 5V
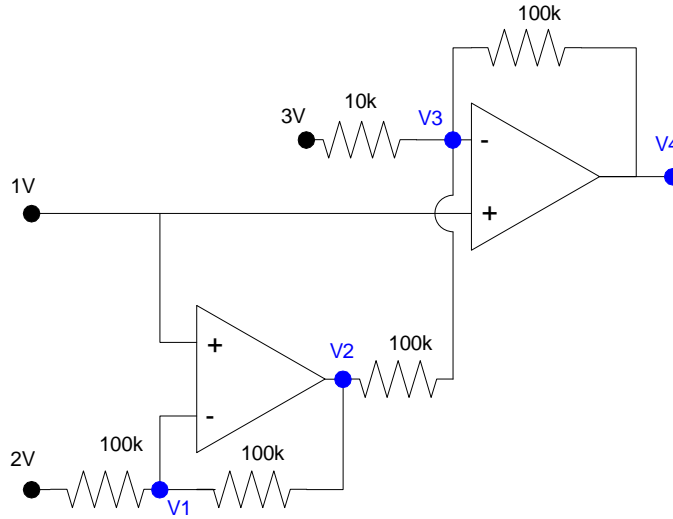
   Does problem 1 + problem 2 = problem 3?

Problem 1 - 3

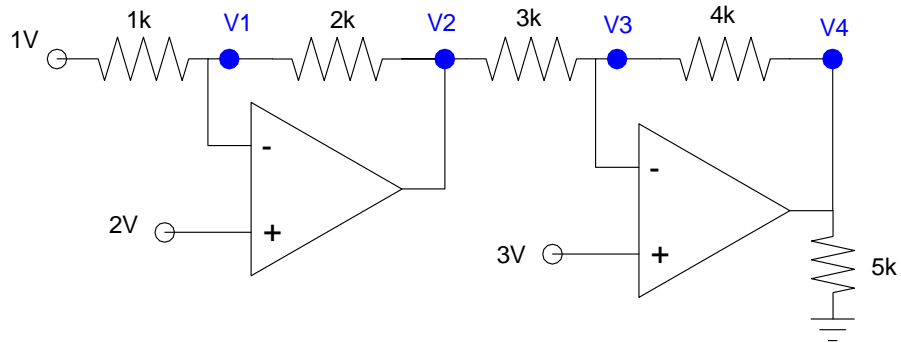|	Va = 10 Vb = 0	Va = 0 Vb = 5	Va = 10 Vb = 5
V1			
V2			
V3			

Op Amps

4) Write the voltage node equations for the following op-amp circuit. Assume ideal op-amps.
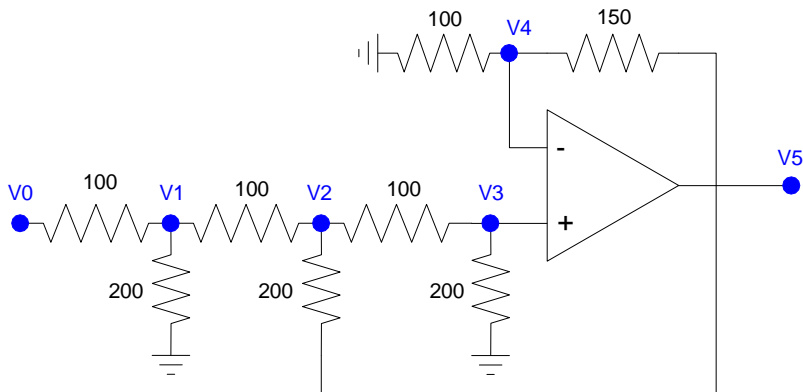
Problem 4

5) Write the voltage node equations for the following op-amp circuit. Assume ideal op-amps.

Problem 5:

6) Write the voltage node equations for the following op-amp circuit. Assume ideal op-amps.

Problem 6