EE 206: Homework #6

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.

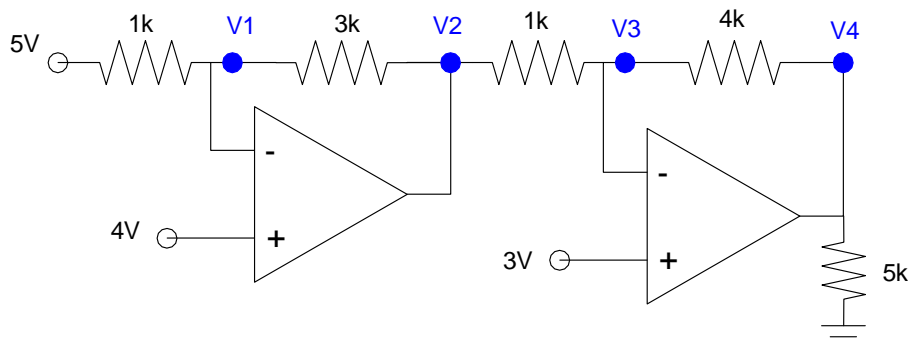3) Use PartSim to determine the votlage at Y assuming V1 = 10V, Vb = 5V

Does problem 1 + problem 2 = problem 3?
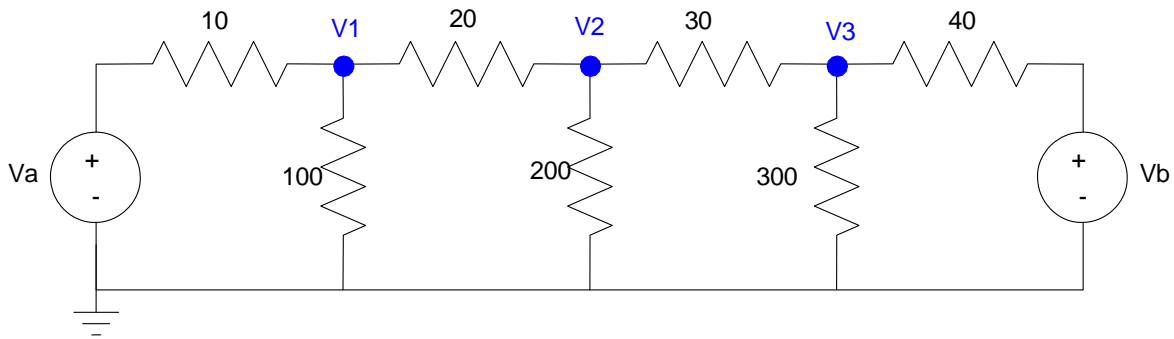
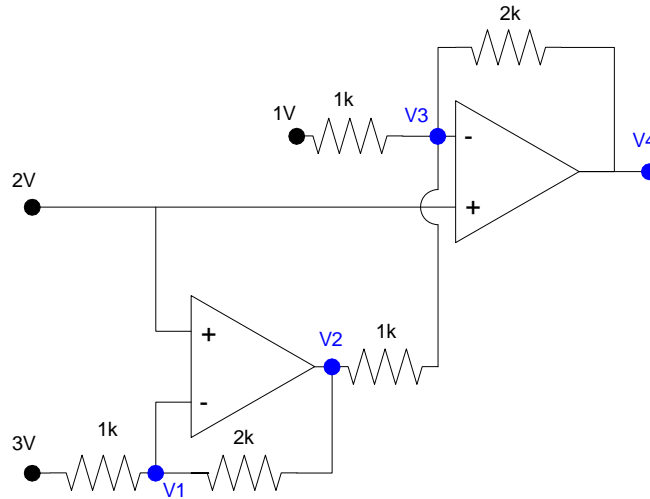|	Va	V1	V2	V3	Vb
Va = 10V Vb = 0V	10.00 V				0.00 V
Va = 0V Vb = 5V	0.00 V				5.00 V
Va = 10V Vb = 5V	10.00 V				5.00 V

Op Amps

4) Write the voltage node equations for the following op-amp circuit. Assume ideal op-amps.
   - Solve for V1, V2, V3, and V4

5) Write the voltage node equations for the following op-amp circuit. Assume ideal op-amps.
   - Solve for V1, V2, V3, and V4 assuming ideal op-amps

6) Write the voltage node equations for the following op-amp circuit. Assume ideal op-amps.
   - Solve for V1, V2, V3, and V4 assuming ideal op-amps