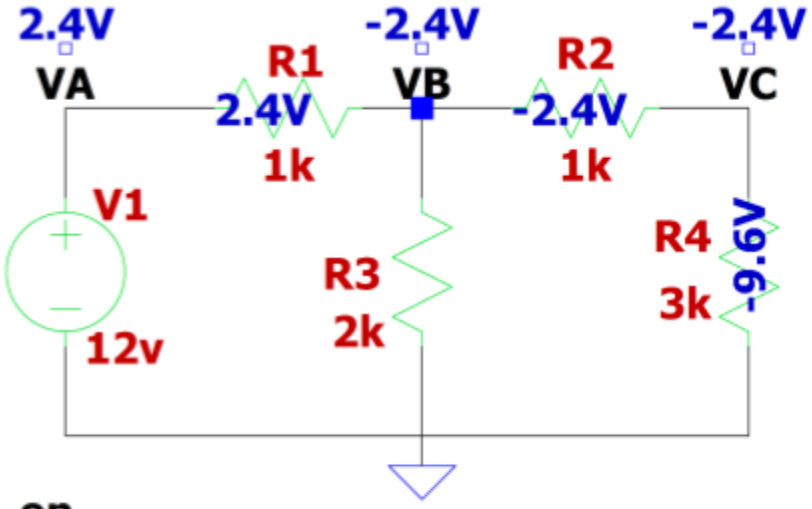
Frank Martino - Proof of Skills Day 2

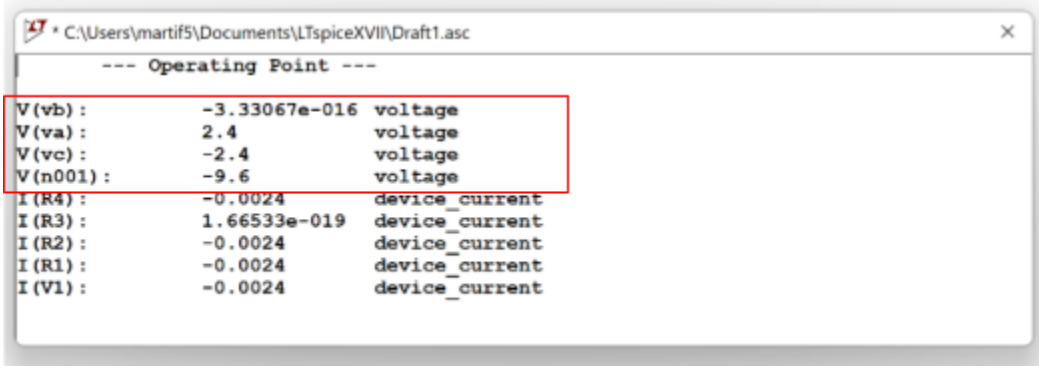
Q1 Circuit Simulation

Prove your skill set using LTSpice (preferred Circuits simulation program) or equivalent simulation program (i.e. PSpice or MultiSim..)

Q1.1 Operation Point dc analysis

I can use operation point dc analysis to find voltages across a resistive circuit.





This circuit has a 12 volt DC power source with a resistor, R1(1kΩ), connected in parallel with another resistor, R2(1kΩ). R2(1kΩ) is in series with R4(3kΩ), another resistor. The pair of resistors R2(1kΩ) and R4(3kΩ) are in parallel with R3(2kΩ). I then

ran the simulation after labeling the nodes VA, VB, and VC which recorded their outputs in the section shown above in the red box. I was also able to record the voltage across R1, R2, and R3 which are labeled above each of them.