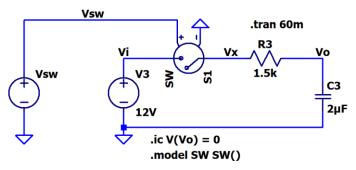
To get full credit:

- Show your work.
- Put a box around each of your answers.
- Make sure to follow all instructions.
- 1. Sketch the waveforms (yes, by hand) for **VinA**, **VoutA**, **VinB**, and **VoutB** in the following circuits. The best way to sketch the output waveforms is to plot specific datapoints (at multiples of the RC time constant after charging/discharging begins) and then connect the dots to draw a waveform. Verify that your waveforms are correct using LTspice. (6 points)



2. Repeat problem 1 for **Vi, Vx, and Vo** in the following RC circuit. Verify that your waveform sketches are correct using LTspice. (4 points)



For Vsw: PULSE(-1 1 10m 1n 1n 25m 50m)

3. In your own words, describe the operation of the circuit in problem 2. Without removing or changing any components in the circuit, devise a plan to discharge the capacitor in the circuit after the switch S1 opens at t = 35ms. Why doesn't it discharge in the circuit given? (4 points)

