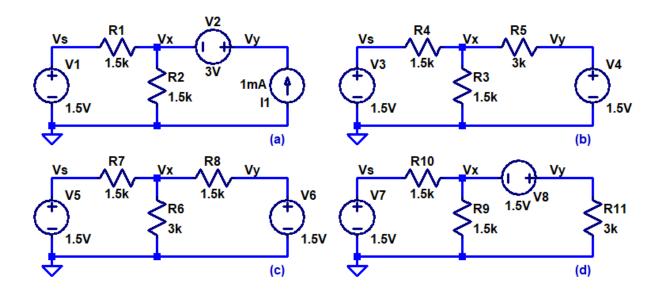
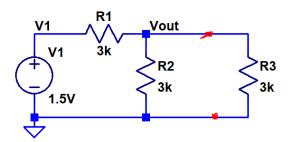
H.W. #6 EE 220 Fall 2018

Show your work for credit!

1. Find the voltages and currents in each of the following circuits **using mesh analysis**. Verify your hand calculations using LTspice. (8 points)



- 2. Repeat problem 1, but no need to repeat the LTspice simulations, **using superposition.** (8 points)
- 3. Find the Thevenin and Norton equivalent circuits for the circuitry to the left of the two terminals marked with red dots below. Show that Vout is the same for: 1) the circuit seen below, 2) the Thevenin equivalent circuit connected to R3 and 3) the Norton equivalent circuit connected to R3. Verify your answers with three LTspice simulations. (3 points)



4. Work book problem 2.46. Verify your answer with LTspice. (2 points)