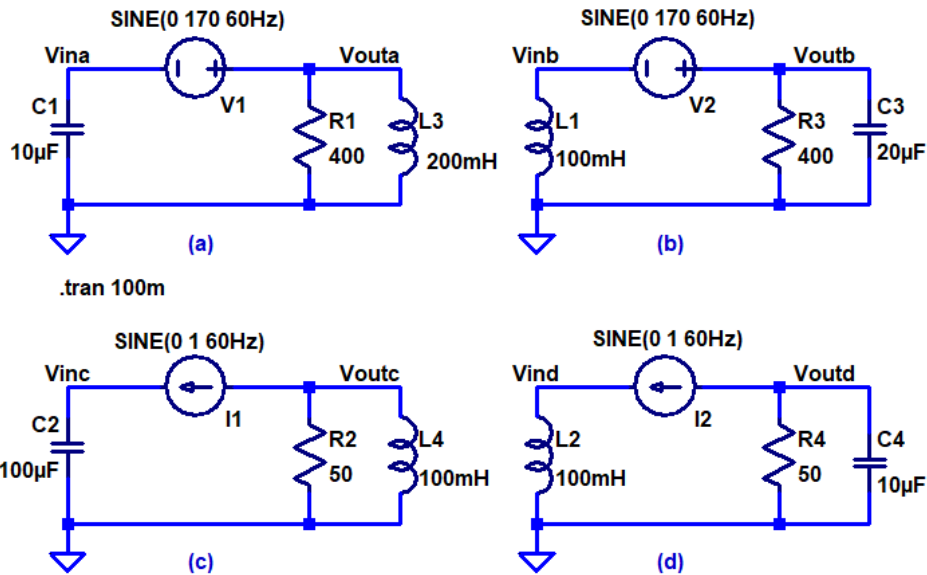


H.W. #8 EE 221 Spring 2019

Show your work for credit and put a box around each of your answers (follow the hw guidelines!)

1. Work book problems 8.1, 8.4, and 8.7. (2 points each)
2. Find the output voltage for each of the following circuits using AC analysis (as always make sure that your hand calculations are concise and clear). Sketch the output voltage and input voltage on the same plot in the time domain and compare to LTspice. Since AC analysis is for steady-state operation neglect the start-up transients and any DC offsets (i.e. just look at the sinusoids). (8 points)



3. Work book problem 7.79. Assuming the input voltage to the circuit is a sinewave having an amplitude of 10V peak and a frequency of 1 kHz, determine the capacitor values and then verify your answer using LTspice. (4 points)