Final Practice Exam EE 220 Summer 2014 Open book and closed notes. Show your work for credit!

1. Find VA and VB in the following circuit. (10 points)



2. Find Vout in the following circuit using an ideal op-amp. (10 points)



3. Find Vout in the following circuit and plot it, and the input signal, against time. (10 points)



4. Find the Thevenin and Norton equivalents of the following circuit. As always show your work for credit. (10 points)



5. Find V2 in the following circuit. (15 points)



6. Find, and sketch in the time-domain relative to VL, the current that flows in the following circuit. (15 points)



7. Write equations for Vout in each of the following circuits and then sketch the output voltage and current in each circuit against time. (10 points)



8. Suppose a circuit has the following frequency response. Sketch Vin and Vout in the time domain when they are sinusoids at a frequency of 600 kHz. (10 points)



9. Using superposition find Vx. (10 points)

