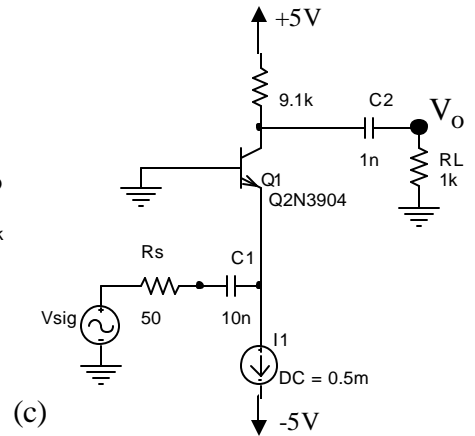
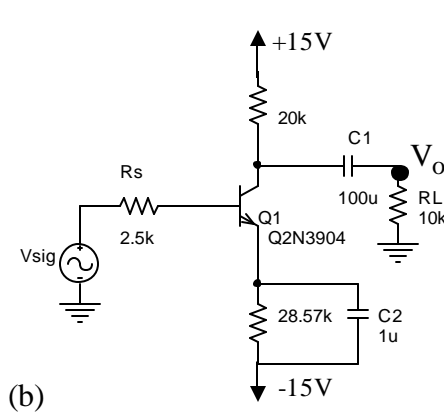
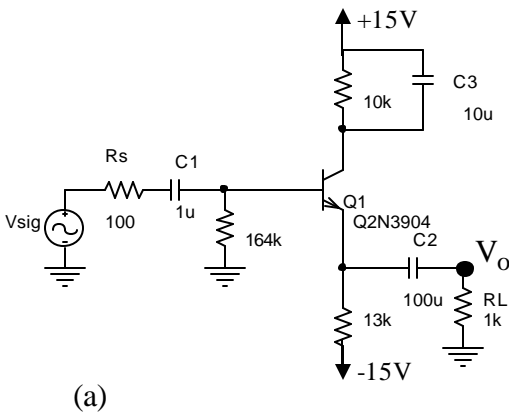
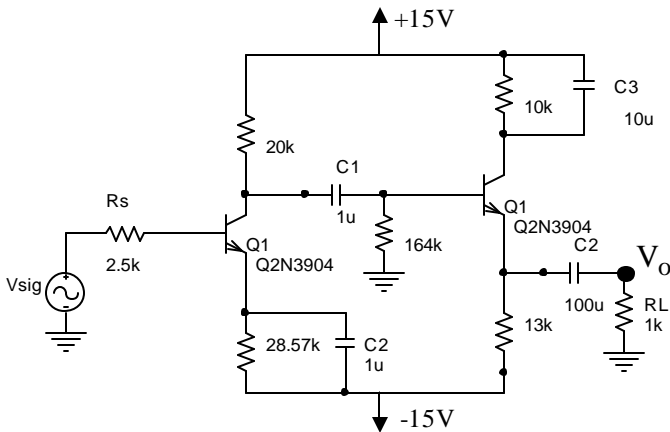


1. Use $|V_{BE}|=0.7$, $\beta=100$. Analyze the following circuit(s) to find all DC currents and voltages. Analyze the circuit to find the midband gain, V_o/V_{sig} , R_{in} (ignore R_s), R_{out} (ignore R_L), and find the low frequency pole values. {Each circuit below is worth 1 problem for a total of 3 problems}



2. Note that the circuit below is the combination of (b) and (a) combined. Analyze the circuit to find the new R_{in} (ignore R_s), R_{out} (ignore R_L), and midband gain, V_o/V_{sig} . What is the value of f_L for this circuit?



3. Note that the circuit below is the combination of (a) and (c) combined. Analyze the circuit to find the new R_{in} , R_{out} , and midband gain. What is f_L ?

