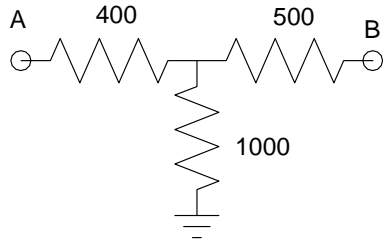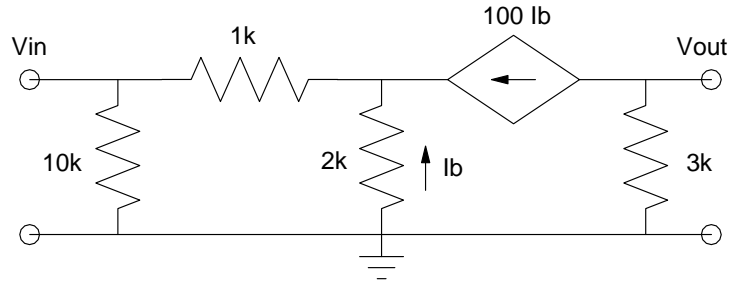# ECE 321 - Homework #4

2-Port Models, DC Analysis of Transistor Amplifiers. Due Monday, November 27th, 2017

1) Determine the 2-port model for the following circuit.
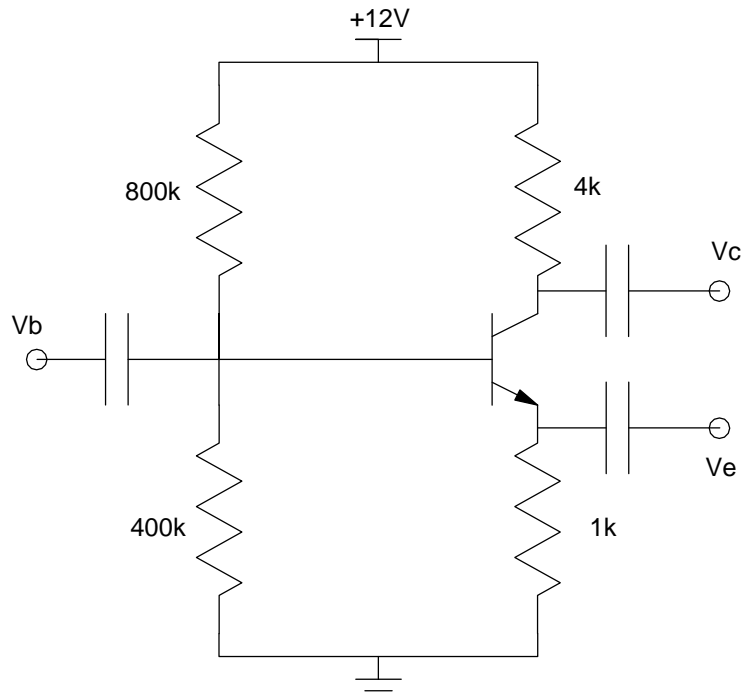
2) Determine the 2-port model for the following circuit.

Problem 1

Problem 2

3) Determine the Q-point for the following circuit. Assume a 3904 transistor $(\beta = 200)$

4) Modify this circuit so that

- The Q-pont is Vce = 6.0V
- The Q-point is stabilized for variations in β

Problem 3 & 4