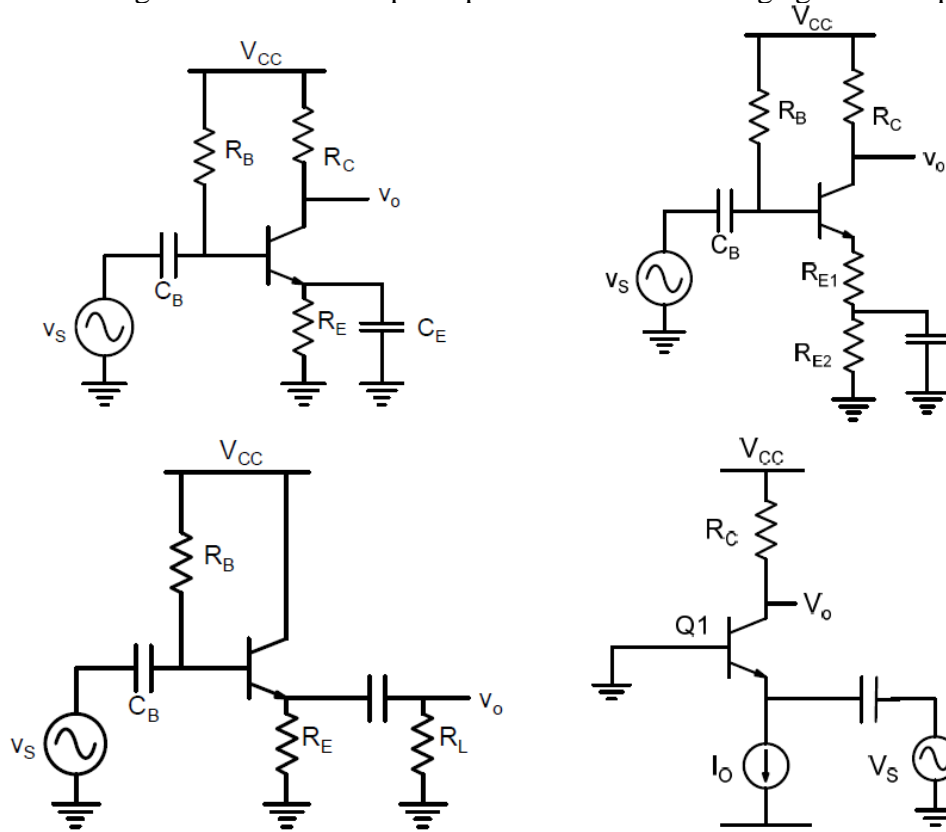


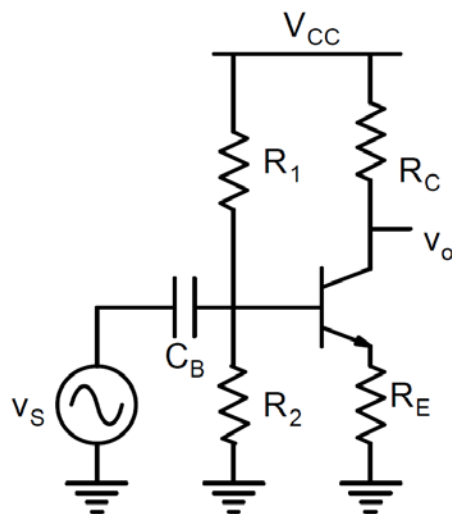
EE210: HW-8

Date: 28.02.2019

Q1. Analyze the following circuits from first principles to determine voltage gain and input resistance.



Q2. Check the claim that “it is not possible to design the single stage BJT amplifier shown below such that magnitude of open circuit voltage gain is ≥ 100 , input resistance is $\geq 1\text{k}\Omega$ and the design is such that voltage gain stability against variation in current gain β is better than 5% and supply voltage is less than 12V”.



Q3. Analyze the following circuit through use of “divide & reuse” methodology.

