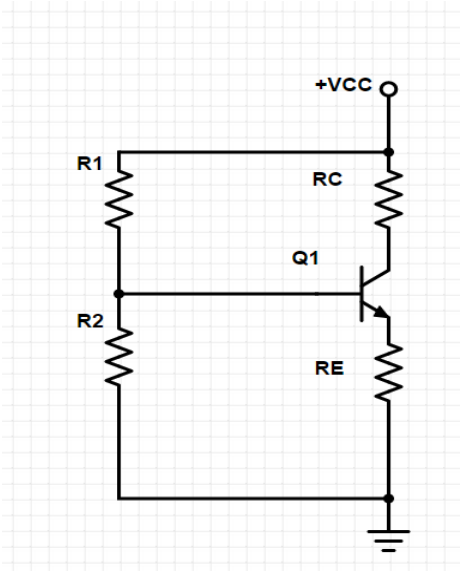
HW3-- EE – 101

Uploaded: 3rd October, 2015. Deadline: 12th October, 2015 (5 pm).

BJT Circuits

Problem 1:

The BJT in the circuit shown has $\beta = 100$. Suppose that R1 = 60kΩ, R2 = 30 kΩ, RC = 1kΩ, and V_{CC} = 6V. Find the minimum value of R_E such that the transistor will be in active mode.



Problem 2. Problem 7.54 in Bobrow's book.

Problem 3. Problem 7.58 in Bobrow's book.

Problem 4. Problem 7.60 in Bobrow's book.