EE 282

HW # 2
(Due: March 30, 2011)
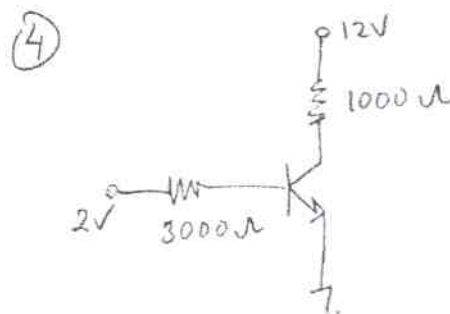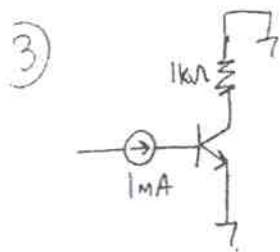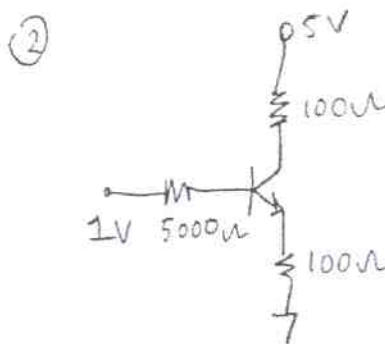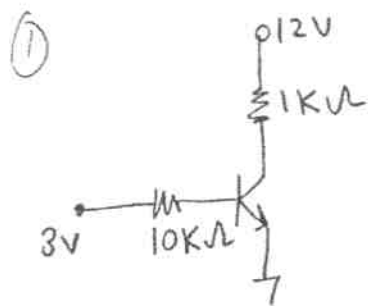
Part 1:

Find the state and $I_C, I_B, I_E, V_{BE}, V_{BC}, V_{CE}$ of the following transistor bias circuits.

Parameters: $V_{BE}(ON) = 0.7V$ $V_{CE}(SAT) = 0.2V$
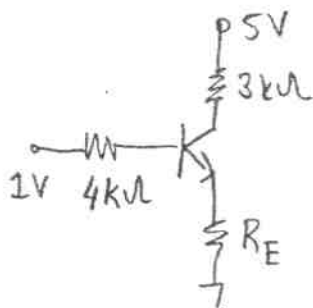
$V_{BE}(SAT) = 0.8V$ $B_{FA} = 50$

①

②

③

④

Part 2: (Use same parameters)

⑤ Find a range for R_E so that transistor is in FA.

⑥ Find a range for R_C so that transistor is in SAT.