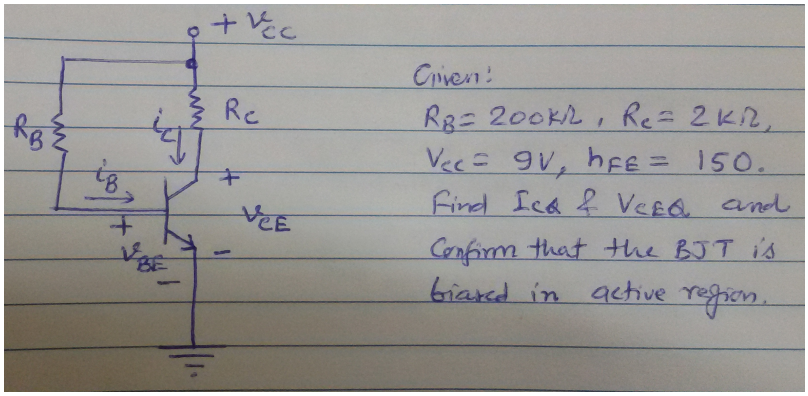
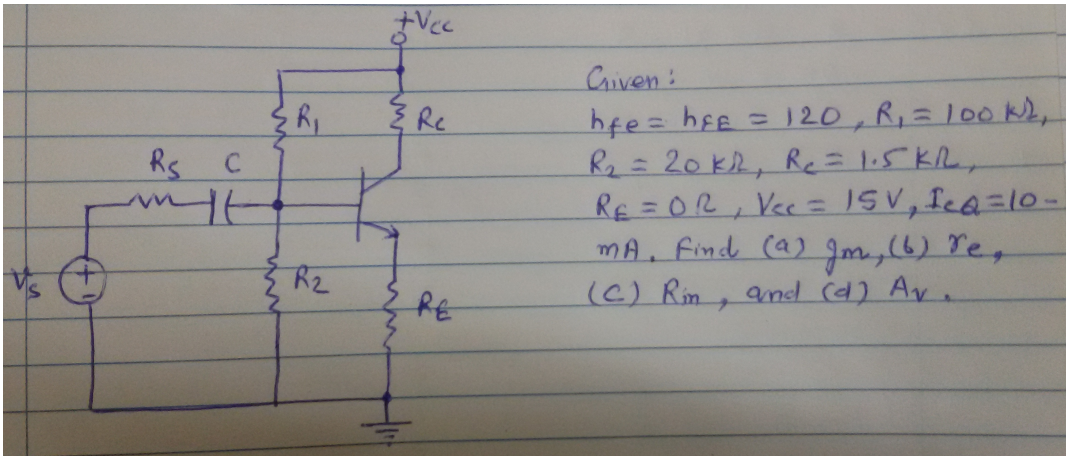
Unsolved Practice Problems for ELL100 (BJT and Digital Electronics)

Disclaimer: This set of unsolved problems is meant for practicing and by no means this is bounding for questions to be asked in examinations. Symbols have their usual meanings.

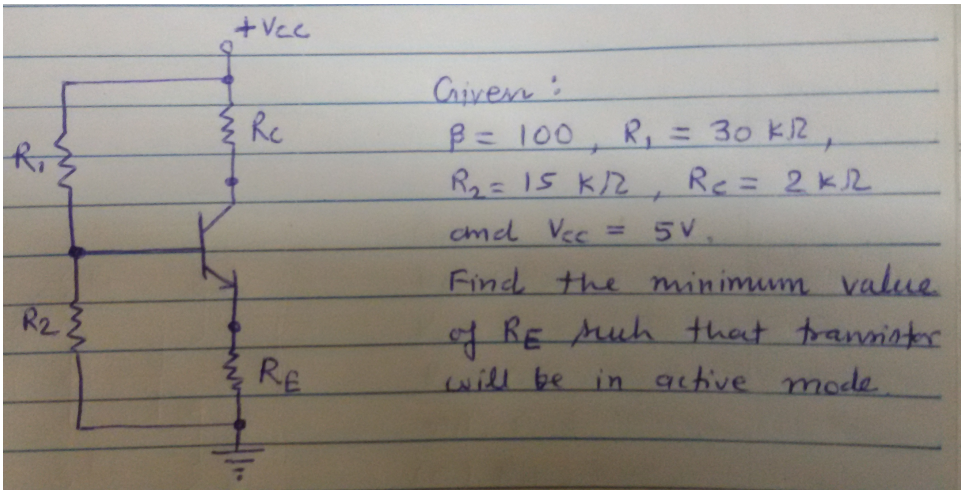
Prob. 1:



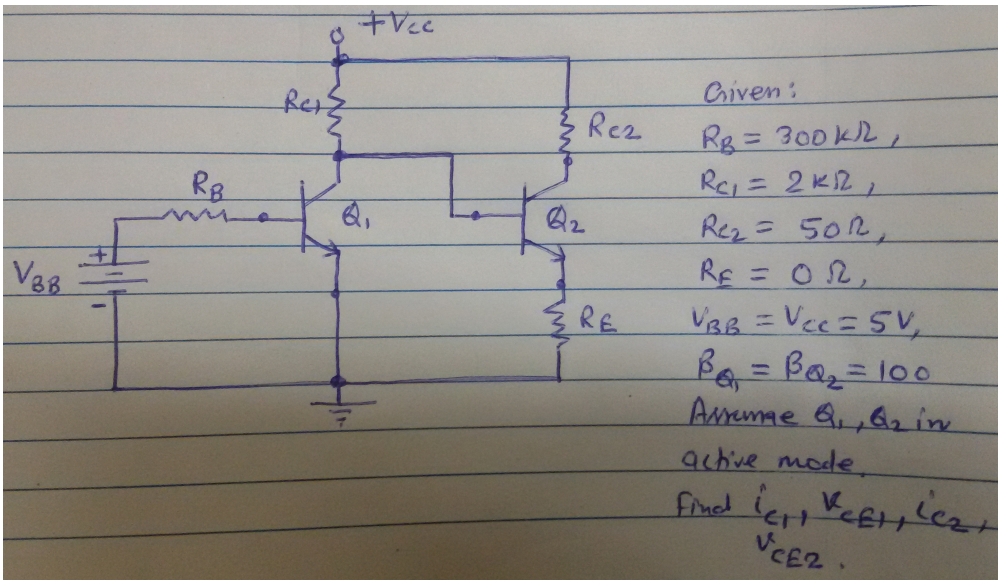
Prob. 2:



Prob. 3:

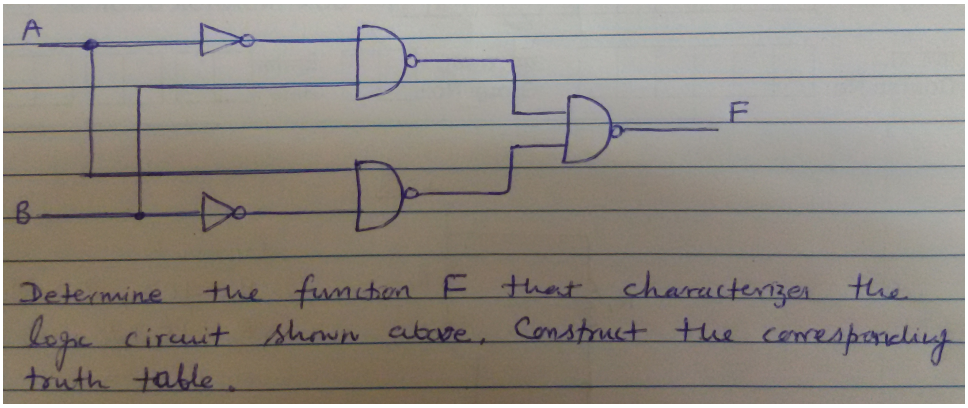


Prob. 4:

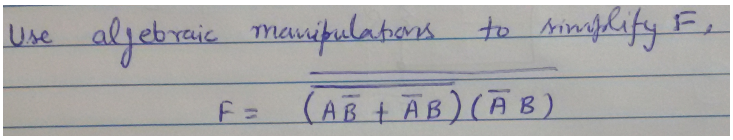


Prob. 5:
Realize an XOR gate using only NAND gates.

Prob. 6:



Prob. 7:



Prob. 8:

Find the simplified sum-of-products form of the Boolean function that corresponds to the Karnaugh map given below:

AB \ CD	00	01	11	10
00				
01	1	1	1	1
11		1	1	1
10				1