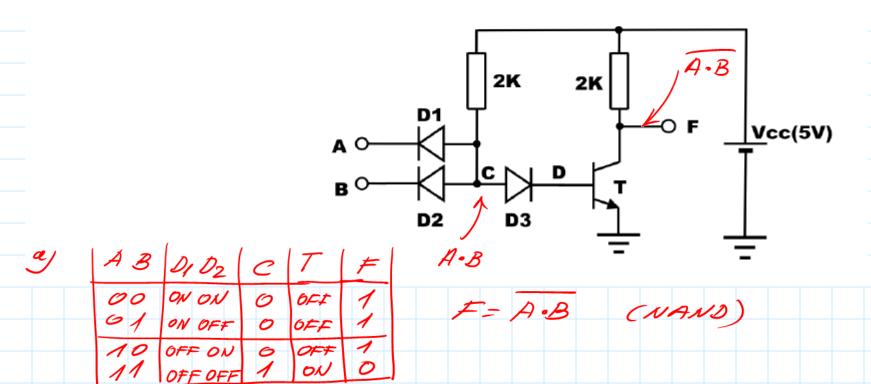
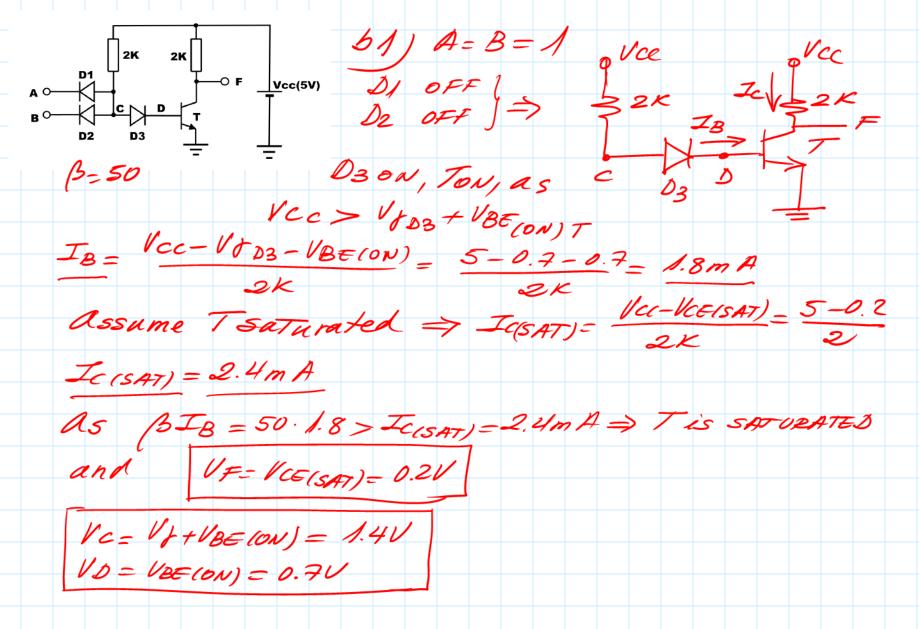
CH1. BASIC SEMICONDUCTOR DEVICES

- 41. The following circuit implements a two-input logic gate: A and B are the inputs and F the output (F):
 - a) Obtain the truth table of the circuit and infer which type of logic gate is. Inputs ("1" -> 5V; "0"-> 0V)
 - b) Calculate approximately the voltage in the signaled points and the current of all branches, for each combination of inputs.

DATA: $V_{BE(ON)} = 0.7V$; $V_{CE(SAT)} = 0.2V$, $\beta=50$. Diodes: $V_{\gamma}=0.7V$



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