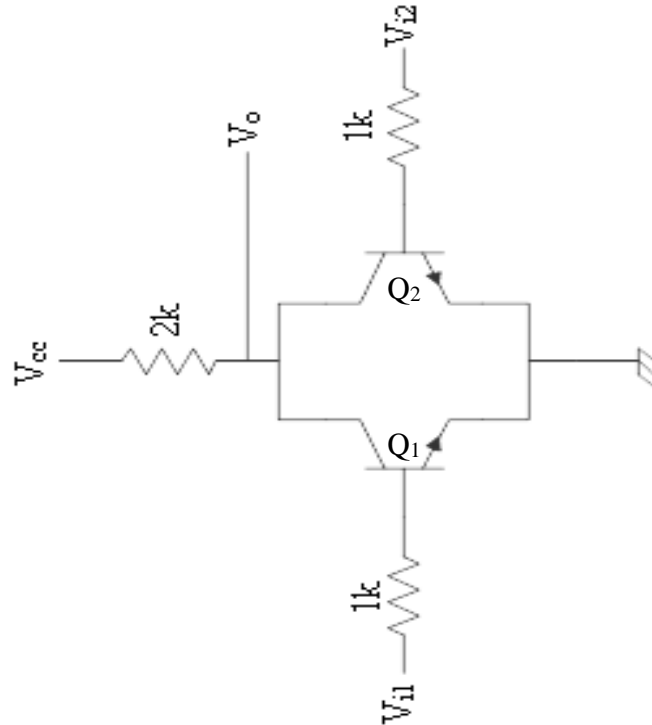


Experiment # 4
Name of the experiment: Study of a RTL NOR gate.



Procedure:

1. Measure the output voltage (V_o) for all possible input combinations.
2. Connect the V_{i1} input to ground, vary V_{i2} and measure V_o .
3. Connect the V_{i2} input to ground, vary V_{i1} and measure V_o .

Questions:

1. Analyze the operation of RTL NOR gate with the experimental data.
2. What is the importance of studying the RTL gate? [Hint: Millman pg. 162]
3. Draw the V_o vs. V_{i1} and V_{i2} curves.

Report:

1. Objective.
2. Circuit diagram
3. Answer to the questions.
4. Experimental data.
5. Calculations.
6. Discuss the findings.