Homework 01

Due on March 17 12:00pm

- 1. Verilog simulation with NCVerilog and nWave:
 - a. Modify the Verilog code of the majority circuit.
 - b. Design a Verilog module to realize the following logic function:

$$f(x, y) = (x \lor y) \land \overline{(x \land y)}.$$

- c. Write a testbench to verify the operation of your design on all four combinations of x and y.
- d. What function does this circuit realize?
- e. Write a short report of a paragraph or two to summarize whether or not you encounter problems, and how you solve them. Also attach the simulation result and a screenshot of the waveform.

Note: submit the source code and the electrical report based on TA's instructions.