

**UNC Charlotte, Department of Electrical and Computer Engineering  
ECGR 2181, Fall 2015, Homework #3**

**Due: Section 001: 10/14/2015, Section 002: 10/15/2015; at the beginning of class (20 points)**

**Show all of your work!!!!**

All problems from Class Textbook, Digital Design, Frank Vahid

**Logic Gates**

Solve exercise problems 2.10, 2.14, 2.20

**Boolean Algebra**

Solve exercise problems 2.24, 2.28

**Boolean Functions**

Solve exercise problems 2.31, 2.32, 2.36, 2.40

**Combinational Logic Optimization**

Solve exercise problems 6.2, 6.4, 6.7, 6.9