CSci 1302 Assignment 2

Due Wedn., Feb. 3rd in class

Problem 1 (3 points). Exercises 30, 36, 38 on p. 16.

Problem 2 (9 points). Exercises 46, 49, 51 on p. 16.

Problem 3 (6 points). Prove the following using logical proofs (not truth tables):

1. $(q \wedge p) \vee \tilde{}(\tilde{}p \vee \tilde{}q) \equiv p \wedge q$
2. $(p \rightarrow q) \vee (p \rightarrow r) \vee p$ is a tautology

Problem 4 (4 points). Exercise 18 p. 27

Problem 5 (4 points). Exercises 33, 34 p. 28.