Due: Monday, January 25, 2010	
Name (Print)	CSE Login

Instructions Follow instructions carefully, failure to do so may result in points being deducted.

- The homework can be submitted on paper or via handin. Homework *neatly* formatted in LATEX will receive a 10 point bonus. You will not receive the 10 points bonus if you work with a partner (see below).
- Clearly label each problem and submit the answers in order.
- Staple this cover page to the front of your assignment for easier grading.
- Late submissions will not be accepted.
- Show sufficient work to justify your answer(s).
- When you are asked to prove something, you must give as formal, rigorous, and complete a proof as possible. Each step in your proof must contain explanation that would allow us to understand what theorem/logic you have applied to arrive at that step.
- You are to work individually, and all work should be your own. Check partner policy below.
- The CSE academic dishonesty policy is in effect (see http://cse.unl.edu/ugrad/resources/academic_integrity.php).

Partner Policy You may work in pairs, but you must follow these guidelines:

- 1. You must work on all problems together. You may not simply partition the work between you.
- 2. You must use LATEX and you may divide the typing duties however you wish.
- 3. You may not discuss problems with other groups or individuals.
- 4. Hand in only one hard copy under the first author's name.

Problem	Page	Points	Score
A	_	6	
1.1:10(b,d,f)	17	6	
1.1:12	17	8	
1.1:14	17	8	
1.1:20	18	16	
1.1:26	19	8	
Total		52	
Typesetting (bonus)	10	

Problem A Suppose that $\neg p \to \neg q$ is known to be false. Give the truth values for:

- (a) $p \wedge q$
- (b) $p \oplus q$
- (c) $q \to p$