
Due: Friday, February 3, 2017

Name 1(Print) _____ CSE Login _____

Name 2(Print) _____ CSE Login _____

| Problem | Page | Notes | Points | Score |
|--------------------|------|--|--------|-------|
| 1.4:10 (all) | 53 | | 5 | |
| 1.4:14 (all) | 53 | If false, justify your answer | 4 | |
| 1.4:32 (all) | 55 | | 15 | |
| 1.4:34 (b,c,d) | 55 | | 6 | |
| 1.4:36 (all) | 55 | | 3 | |
| 1.4:38 (b,e) | 55 | | 4 | |
| 1.6:4 (all) | 78 | | 5 | |
| 1.6:6 | 78 | | 10 | |
| 1.6:10 (a,b) | 79 | | 4 | |
| 1.6:12 | 79 | Prove either as directed in textbook or transform into CNF and use unit resolution (i.e., disjunctive syllogism) | 10 | |
| 1.6:34 | 80 | Let the following letters to stand for the relevant propositions: “ <i>d</i> : logic is difficult,” “ <i>s</i> : many students like logic,” and “ <i>e</i> : mathematics is easy.” | 15 | |
| (Bonus)Typesetting | | | 8 | |
| Total | | | 81 | |

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

- The homework must be submitted on paper. Homework *neatly* formatted in \LaTeX will receive a 10 percent bonus. When formatting in \LaTeX , submit both the .tex and .pdf files via handin, in addition to the hard copy. You will not receive the bonus points if you work with a partner (see below).
- Clearly label each problem and submit answers *in order*.
- Staple this cover page to the front of your assignment for easier grading.

- Late submissions *will not be accepted*
- When you are asked to prove something, you must give a 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 *all* problems *together*. You may not simply partition the work between you.
2. You must use L^AT_EX and you may divide the typing duties however you wish.
3. You may not discuss the problems with other groups or individuals.
4. Hand in only one hard copy with both author's names.