



Name _____

Points (20) _____

Intermediate Logic

Homework #31
(Due: 5/28/2013)

Review for final:

- What we have covered in the text this semester (pages 31-158)
- All of the informal fallacies we have covered in class this year (from your notes)
- Be sure you know the Rules of Inference and Rules of Replacement
- Be sure you know the decomposition rules for truth trees (review the checklist, too!)
- Make sure you can identify the assumptions you need to start with in order to prove consistency, validity, equivalence, and contradictions using the shorter truth table and truth tree methods.

Read pages 109-118 in the *Introductory Logic* textbook. You may also wish to review the fallacies of distraction on pages 103-108. Complete the exercises from the text.

Exercise 26 (page 110)

- | | |
|----------|-----------|
| 1. _____ | 6. _____ |
| 2. _____ | 7. _____ |
| 3. _____ | 8. _____ |
| 4. _____ | 9. _____ |
| 5. _____ | 10. _____ |

Exercise 27 (page 115)

- | | |
|----------|-----------|
| 1. _____ | 6. _____ |
| 2. _____ | 7. _____ |
| 3. _____ | 8. _____ |
| 4. _____ | 9. _____ |
| 5. _____ | 10. _____ |

Exercise 28 (pages 117-118)

1. _____

11. _____

2. _____

12. _____

3. _____

13. _____

4. _____

14. _____

5. _____

15. _____

6. _____

16. _____

7. _____

17. _____

8. _____

18. _____

9. _____

19. _____

10. _____

20. _____

Cranium Calisthenics*

"Here is a more interesting one," said Scheherazade. "A man was being tried for having robbed a caravan. Three witnesses came forth and made the following statements:

First Witness: The defendant has committed over a dozen robberies in the past!

Second Witness: That is not true!

Third Witness: He has certainly committed at least one robbery!

"As it turned out, only one of the witnesses had told the truth. Did the defendant rob the caravan or didn't he?"



* From *The Riddle of Scheherazade and Other Puzzles*, Smullyan. Knopf, 1997.