Smith

Proof Logic Basics - 1

Accepted

Not Accepted

I affirm this work abides by the university's Academic Honesty Policy.

Print Name, then Sign

- First due date Thursday, January 28.
- Turn in your work on a separate sheet of paper with this page stapled in front.
- Do not include scratch work in your submission.
- There is to be **no collaboration** on any aspect of developing and presenting your proof. Your only resources are: you, the course textbook, me, and pertinent discussions that occur **during class**.
- Follow the Writing Guidelines of the Grading Rubric in the course information sheet.
- Retry: Only use material from the relevant section of the text or earlier.
- Retry: Start over using a new sheet of paper.
- Retry: Restaple with new attempts first and this page on top.

"We used to think that if we knew one, we knew two, because one and one are two. We are finding that we must learn a great deal more about 'and.'" (Sir Arthur Eddington)

LB-1 (Flug Handout):

- 1. Verify the validity of the method of proof by contradiction by presenting the truth table that shows $((H \wedge \tilde{C}) \Longrightarrow (R \wedge \tilde{R})) \iff (H \Longrightarrow C)$ is a tautology.
- 2. Theorem 4 of the Scorpling Flug Handout says: "There cannot be two or more pushy flugs."
 - (a) Rephrase Theorem 4 to an equivalent theorem in "If \cdots , Then \cdots " form.
 - (b) Prove your rephrased theorem.