

1. Section 4.9:
 - (a) Translate problems 3-9 except 5 into symbols (just translate; do not prove).
 - (b) Construct a derivation for problem 3.
 - (c) Construct a derivation for problem 4.
 - (d) Construct a derivation for problem 8.
2.
 - (a) Explain, as if to a classmate who doesn't know, the difference between an axiom, a rule of inference, and a derived rule of inference.
 - (b) Referring to the four rules FM1-4 in HW 13, determine whether each is an axiom, a rule of inference, or a derived rule of inference.
3. Finish the proof of Lemma 2.1 of Section 9.2 by writing, in your own words, proofs of the subcases not done in class. Then practice proving the entire lemma without looking at your notes or the book.
4. Practice proving the Adequacy (Completeness) Theorem without looking at the book. (I will not lecture on this proof in class; the book's proof is simple and clear enough.)