0.1. **Writing.** Grade: 0 1 2 3 4 ungraded

This is the art of writing mathematics for an audience. (Ungraded may occur if the logic was sufficiently difficult to follow that I could not evaluate the writing.) Areas that need improvement:

1. Complete and simple sentences, appropriately sized.
2. Do not include extraneous information.
3. Keep structure and language in line with logical steps.
5. Introduce variables appropriately.
7. Choose notation to maximize clarity.
8. Identify the use of hypotheses.
10. Precision over vagueness.
11. Honesty about logical gaps or imprecision.
12. Value simplicity.
13. Observe the established culture/etiquette.
14. Do multiple drafts as needed.
15. Provide all necessary information to reader.
16. Do not include examples.
17. Do not re-use variables, or use excess variables.
18. Correct language for calling on a definition (do not quote definition).
19. Remark to reader the necessary things to check.
20. Proper left-to-right flow of equations.

0.2. **Logical Reasoning.** Grade: 0 1 2 3 4 ungraded

This is the art of correct and logical reasoning from hypothesis to conclusion. (Ungraded may occur if the writing is sufficiently confusing that I cannot evaluate the logic.)

Areas that need improvement:

1. Avoid logical errors.
2. Justify logical steps.
3. Choose appropriately sized logical steps.
4. Put logical steps in linear sequence.
5. Identify logical holes in an/your argument precisely.
6. Identify hidden assumptions.
7. Choose the fastest or clearest route (avoid meandering).
8. Do not include extraneous reasoning.
9. Avoid arithmetic errors.
10. Correct use of contrapositive or contradiction.
11. Do not forget cases.
12. Avoid vagueness.
13. Check the necessary details.
14. Complete the argument.
15. Do not assume what you should prove.
16. Use definitions precisely/correctly.
17. Do not make unwarranted assumptions.
18. Do not confuse implication with its converse.