MATH 108—WRITING ASSIGNMENT 02

Due: Thursday February 2

• Read the Learning LATEX document here:

https://www.sharelatex.com/project/588ec497176beb641c2a79b9

The document has 3 pages, but there is lots of empty space. Please read everything—it's important!

- Get the template I made for this assignment. (I even started one of the proofs for you.) Here's how to do it:
 - Team Member 1: Go to https://www.sharelatex.com, and make sure you are logged in.
 - Team Member 1: In a new window, go here:

https://www.sharelatex.com/project/588ecb0d176beb641c2a7a50

- Team Member 1: Click on the menu icon (upper-left corner 3 horizontal lines); select "Copy Project"
- Team Member 1: When prompted for a name, choose something like "Math 108 Assignment 02" and click "Copy"
- Team Member 1: When this completes you will be back in your own workspace (instead of mine).
- **Team Member 1:** Click on the share icon (upper-right 5 headed beast). Enter your team member's email address, make sure they "can edit" it, and "Share."
- Team Member 1 and 2: After solving the problems (possibly by yourself), work together to make a beautiful write up.

The problems are below. Please **print** out your final draft to turn in to me in class this time.

- 1. Prove that the forms $P \implies (Q \lor R)$ and $(P \land \sim R) \implies Q$ are logically equivalent.
- 2. Determine if implication is associative. That is, prove or disprove the following:

"the forms $(P \implies Q) \implies R$ and $P \implies (Q \implies R)$ are logically equivalent."