MATH 110B—WRITING ASSIGNMENT 09

Due: Sunday November 24, by 7PM

Getting Started

- 1. Get the template for this assignment. Here's how to do it:
 - Go to https://v2.overleaf.com/, and make sure you are logged in.
 - In a new window, go here:

https://www.overleaf.com/read/frdyymgnfbvv

- Click on the menu icon in the upper-left and select "Copy Project"
- When ask for a name, choose something like "Math 110B WA 09" and click "Copy"
- When this completes you will be back in your own workspace (instead of mine).
- After solving the problem(s), type them up using the template.
- Email me your final draft.
- 2. Let me know if you have any questions!

If you have trouble finding the command for a math symbol you want to use, try looking in this document:

http://mirror.hmc.edu/ctan/info/short-math-guide/short-math-guide.pdf

Please type up your proofs to the following problems in $\mathbb{I}^{A}T_{E}X$. Take care to use complete sentences and appropriate punctuation, and make sure to edit for typos. Email me your final draft. *Please let me know if you have any questions!*

- 1. Let $m, n \in \mathbb{Z}$ with $2 \leq m < n$. If $p, q \in \mathbb{Z}$ are prime, then $\sqrt[n]{p} \notin \mathbb{Q}(\sqrt[m]{q})$. (This is Theorem 6.50.)
- Make sure to clearly state when you are using a definition, lemma, theorem, corollary, or fact from the notes.