The following items are for reflection and application. They are to be completed outside of class and returned to me by email (**talbertr@gvsu.edu**) before **noon on Tuesday, October 2**. Please use as your subject line:

[Lastname] [section] final item #exam1

where [Lastname] is replaced by your last name and [section] is replaced with either 01 or 02. The hashtag (#exam1) is important for filing purposes, so please remember to include it. **No late submissions will be accepted.** Also please type your responses directly into the body of your email — **do not send email attachments this time**.

16. (8 points) Here is a collection of questions about the concept of the mathematical proof. You can address these one at a time, or in one semi-large essay — but make sure you touch on all of these. Give at least three thoughtful sentences to each one.

    (a) What is a mathematical proof?

    (b) Why do people write mathematical proofs? (Other than the fact that some of them are in MTH 210 and have to do so for a grade?)

    (c) I had a professor in graduate school once who had a paper rejected by a journal because one of his proofs had a flaw in it. "That's OK," he said, "the proof is wrong but the theorem is definitely true." Is this possible? How?

17. (2 points) Please give an overall evaluation of the course so far. Address these questions:

    • What's been particularly helpful for you in learning the material so far?

    • What are some things we could change in the course that would help you learn better?

    • Looking ahead in the course (you might consult the Calendar before reading further), what are some things you are looking forward to, and some potential concerns you may have about the course as we move forward?