

Part I (due at the beginning of class Friday, August 28)

Read the syllabus and write down your questions about it.

Remember that what you record for Part I should have 3 parts, as mentioned in the syllabus:

- (a) Your responses to the reading questions below.
- (b) Your own questions/comments on the reading.
- (c) The amount of time you spent on Part I (including the time spent reading).

Reading/Review Questions

1. Write down your questions on the syllabus/course.
2. Do you remember what it means to say a function is one-to-one? If so, explain; if not, look it up and write down the definition you find. Then answer this question: why do we care if a function is one-to-one when we're talking about inverse functions?

Part II: Exercises (prepare for class)

No Part II problems yet.

Part III: Homework Problems (due Wednesday, September 2 at the beginning of class)

1. Write an automathography to help me understand your mathematics background. Below are some questions to help guide your writing. You may answer as many of these questions as you choose, but your automathography needs to be at least one single-spaced page long and should be a cohesive paper that flows well between topics, not a series of separate paragraphs responding to individual questions (though you should certainly use paragraphs). This assignment will be graded holistically and thus should be written with proper grammar and punctuation. It should address your personal experiences with mathematics and should be your own college-level writing.
 - How would you define mathematics? Don't look it up in a dictionary—define it yourself.
 - Do you like some areas/aspects of math better than others? If so, which ones do you like or dislike? Why?
 - Describe your most memorable experience of learning mathematics.
 - Watch this pair of [Michael Jordan short videos](#). St. Augustine of Hippo wrote “Fallor ergo sum,” which translates to “I err, therefore I am.” Considering these two examples, what do you think the role of failure and making mistakes is in learning? How does that apply to learning mathematics in particular?
 - What are the important questions mathematics asks?

- What are the important questions mathematics is used to answer?
- How do you think learning mathematics can inform your faith and how do you think your faith can inform your mathematical learning?