



Math 4310

Homework 0

Due 8/25/16

Name: \_\_\_\_\_

Collaborators: \_\_\_\_\_

\_\_\_\_\_

*Please print out these pages. I encourage you to work with your classmates on this homework. Please list your collaborators on this cover sheet. (Your grade will not be affected.) Even if you work in a group, you should write up your solutions yourself! You should include all computational details, and proofs should be carefully written with full details. As always, please write neatly and legibly.*

*Please follow the instructions for the “extended glossary” on separate paper (L<sup>A</sup>T<sub>E</sub>X it if you can!) Hand in your final draft, including full explanations and write your glossary in complete, mathematically and grammatically correct sentences. Your answers will be assessed for style and accuracy.*

*Please **staple** this cover sheet, your exercise solutions, and your glossary together, in that order, and hand in your homework in class.*

#### GRADES

Exercises \_\_\_\_\_ / 50

#### Extended Glossary

Component	Correct?	Well-written?
Definition	/6	/6
Example	/4	/4
Non-example	/4	/4
Theorem	/5	/5
Proof	/6	/6
Total	/25	/25

**Reading.** *The Secret to Raising Smart Kids* by Carol Dweck, in Scientific American. You can find it by Google, or linked from the course homework web page.

**Exercises.** There are none this week.

**Extended Glossary.** There is none this week.

**Journal entry.** Find a notebook that we will pass back and forth (even a bluebook will do!), and write your name and attach a photo of yourself on the cover. For your first entry, I’d really like to hear about why you are considering this course and what you hope to get out of it, any reactions to the Dweck article, and also a short “mathematical biography” of yourself.