

Math Camp

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- ▶ This is not how we are supposed to learn mathematics!!

Our goals:

- ▶ reduce heterogeneity of math backgrounds for students in Econ graduate classes
- ▶ advance your math skills and knowledge
- ▶ help you make precise arguments
- ▶ learn how to prove mathematical statements
- ▶ learn how to read and evaluate proofs

You learn mathematics by doing mathematics. It is not sufficient to read books and notes, again and again.

What to do?

- ▶ work through each line on your class notes, be sure you know how to get from one line to the next
- ▶ follow each step as we do proofs in class
- ▶ solve problems ... not only homework problems I assign ...
- ▶ think about problems on your own, discuss them with your classmates but don't let others think for you....
- ▶ mathematics is not about speed ...its about precision and depth
- ▶ don't ever look at answers for problems before working on the problems on your own (...a lot!)
- ▶ AI is a great tool for those that **already know** mathematics...

What is the role of a Math professor?

- ▶ Be a pacesetter: “We will learn this much during this time...”
- ▶ Make clear what is *essential* and what is *superfluous*
- ▶ Make students work!