



Welcome to VV186!

Hamham

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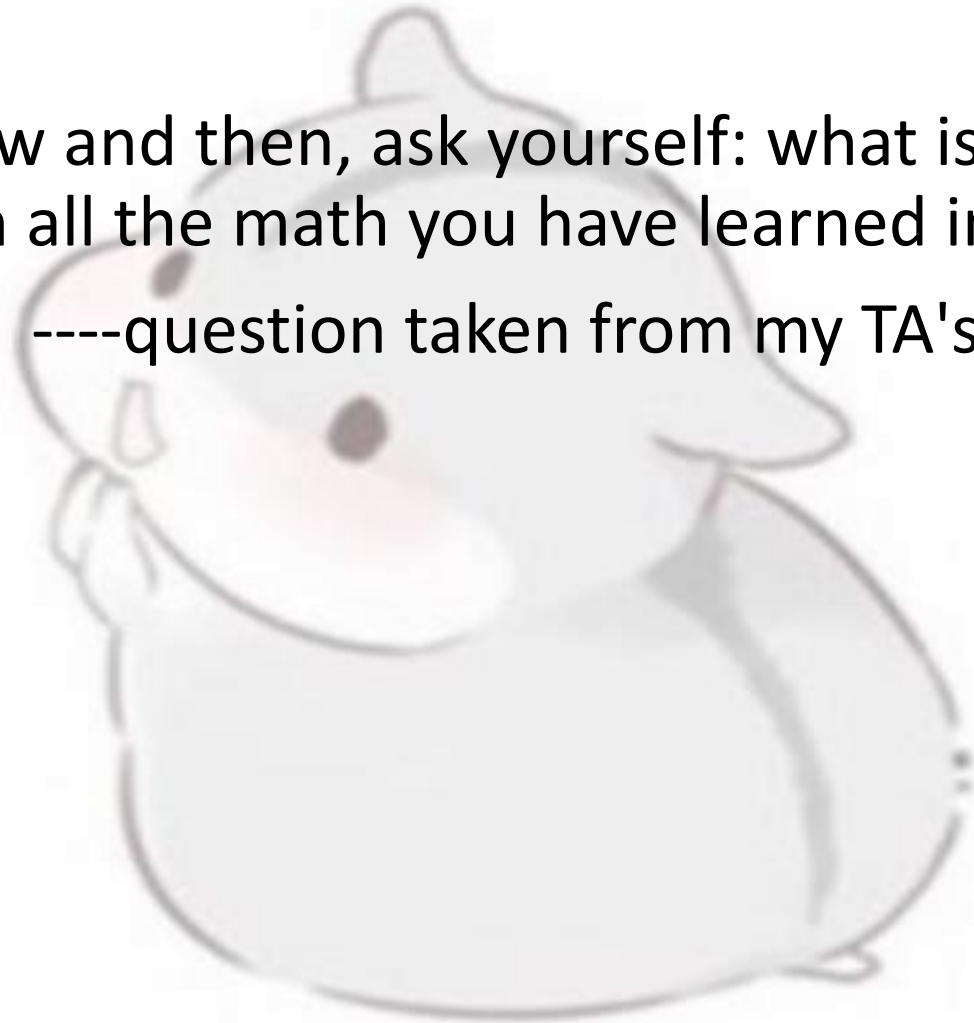
About me

- Major in ECE
- Nickname: Hamham/Hamster
- SJTU Piano Association
- JI Relaxation room(lbl 320)
- Tech department in Student Union
- Wechat & QQ
- email: niyinchen@sjtu.edu.cn || qqniyinchen@163.com
 - but...sometimes I would be careless...please remind me if I don't reply in 24 hours.



A simple question?

- Every now and then, ask yourself: what is “math” based on all the math you have learned in your life?
----question taken from my TA's TA's slides



Where is this course?

- **Engineer Foundation:**

- VV186-VV285-VV286

- VC210-VC211

- VE203

- VP141-VP241

- VP160-VP260

- VG100

- VG101/VG151

- ...

- **Program Subject:(ECE)**

- VE280

- VE215-VE216-VE311

- VE270

- ...

- **Core Elective:**

- VE281

- VE373

- ...

- **Academic Writing**

- VY100-VY200

- ...

What is in this course?

- VV186 - Functions of a Single Variable
 - Basic Tools & Definitions
 - Real Functions & Convergence & Continuity
 - Differential Calculus in One Variable
 - Integral Calculus in One Variable
- VV285 - Linear Algebra and Functions of Multiple Variables
 - Linear Algebra
 - Differential Calculus for Multiple Variables --- integration bee
 - Integral Calculus in \mathbb{R}^2 and \mathbb{R}^3
- VV286 - Ordinary Differential Equations
 - Differential Equations of First Order
 - ...



applications



Integration Bee!



But....

- How to learn well in VV186?



General Suggestions

- Do **attend** every class: Early eight is hard but worthwhile!
- Follow the lecture slides - **notations and definitions**
- Pay attention to the concepts
- Get general idea of each proof instead of reciting it
- Check the course material at least every two weeks
 - Try to do the DIY part
 - Concept checking Paper
- Keep fighting : You're not alone
 - Teammates & Classmates: learn better by teaching others
 - Piazza : raise questions and answer other's questions

Team Work Demoç?

- A: I think the solution to this problem is applying ... theorem and get.....
- B: Wow! dalao!
- C: Bow to dalaos!

- A: Let's discuss our next assignment tomorrow.
- B: ...(no respond)
- C: ...(no respond)

- A: I'll do the exercise 1-2.
- B: I do the exercise 3-4.
- C: Then I do 5-6.

- Please proactively interact with your teammate!
- If you find your teammate “dead”, please contact us!
- Please don't rely on your teammate too much!

About RC & OH

- RCs are **not mandatory**.
 - If you think you have a good hold of the course contents, you can skip the RCs.
- RCs usually consist of these parts:
 - Recap of lecture contents
 - Exercises (not too difficult)
 - Solution to some assignment problems
 - Extra contents (depend on me hhh)
- Discussions are **encouraged** in the RCs, as long as you don't bother other students.
- Feel free to interrupt me at anytime! Sometimes **prizes** for active interactions!
- Try to use **English** during RCs.
- OH is for you if you have any question! Try to listen to other classmate's question!

Assignments

- Do assignments yourself, don't rely your team mate too much
- Hand in assignments **on time, A4 paper** suggested.
- **Don't do too much** extra exercise, but spend time on assignments
- Pay attention to some important result in assignment, they might appear or (at least be useful) in the exam!
- Pay attention to your **writing**
 - bonus for neat and cleaning writing/well latex-typed
 - up to 10% deduction for poor writing
 - There might be a upcoming exercise for how to write proof [depends on Horst]
- Cite the source properly
- Write **your name, student number and team number!!**

Recommended reference books

- M. Spivak, *Calculus*, 3rd Edition, Cambridge University Press 2006.
- K. Jänich, *Linear Algebra*, Springer 1994.
<https://link.springer.com/book/10.1007/978-1-4612-4298-7>

Reference

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