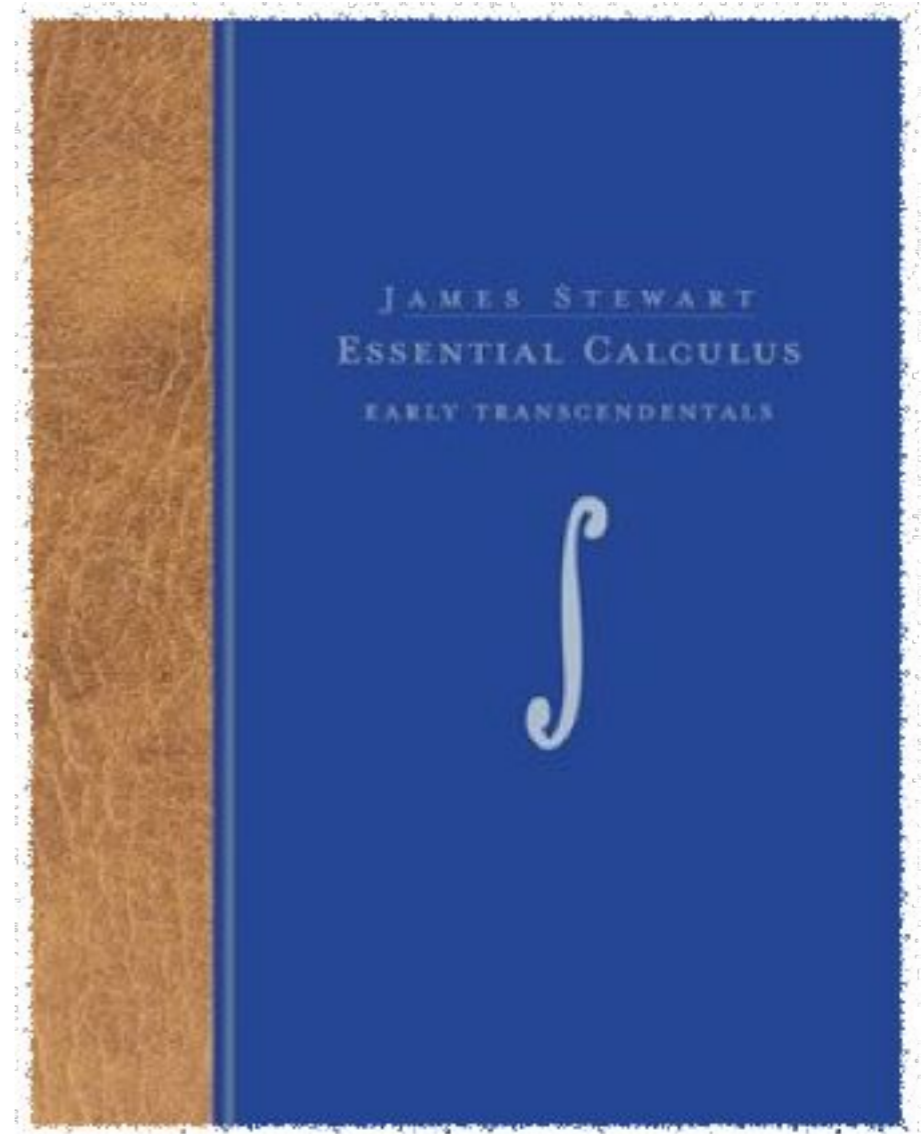Calculus at Pitt

Pitt Math GSO

Calculus at Pitt

An introductory guide to the typical calculus courses offered by the mathematics department at the University of Pittsburgh

Contents

- Calculus 1: Introduces limits, continuity, derivatives, and finally antiderivatives & integration

- Calculus *3*: Multivariable Calculus including vectors, the chain rule, Lagrange multipliers, surface & line integrals

- Calculus 2: Whatever doesn't fit: Diff. Eq.'s, polar coordinates, parametric curves, sequences & series, vectors

Contents: Bizz-Calc

- Designed for business majors. Different book & software (Webworks)

- There is a lot of material covered

- Includes logarithmic and exponential functions, but not trigonometric functions

Problem Areas

- Calc I: Functional notation, related-rates, optimization, curve sketching

- Calc 2: Work and hydrostatic pressure, area & volume integrals, sequences & Series

- Calc 3: Planes & quadric surfaces, triple & double integrals, vector calculus, Lagrange Multipliers

- Business Calc: Multivariable calculus, optimization, and partial derivatives

Expectations of Students

- Most Engineering students are required to take Calc 1-3

- Many students are not math or engineering majors

- Students have different backgrounds: Commuters, non-traditional students, part-time students that also work
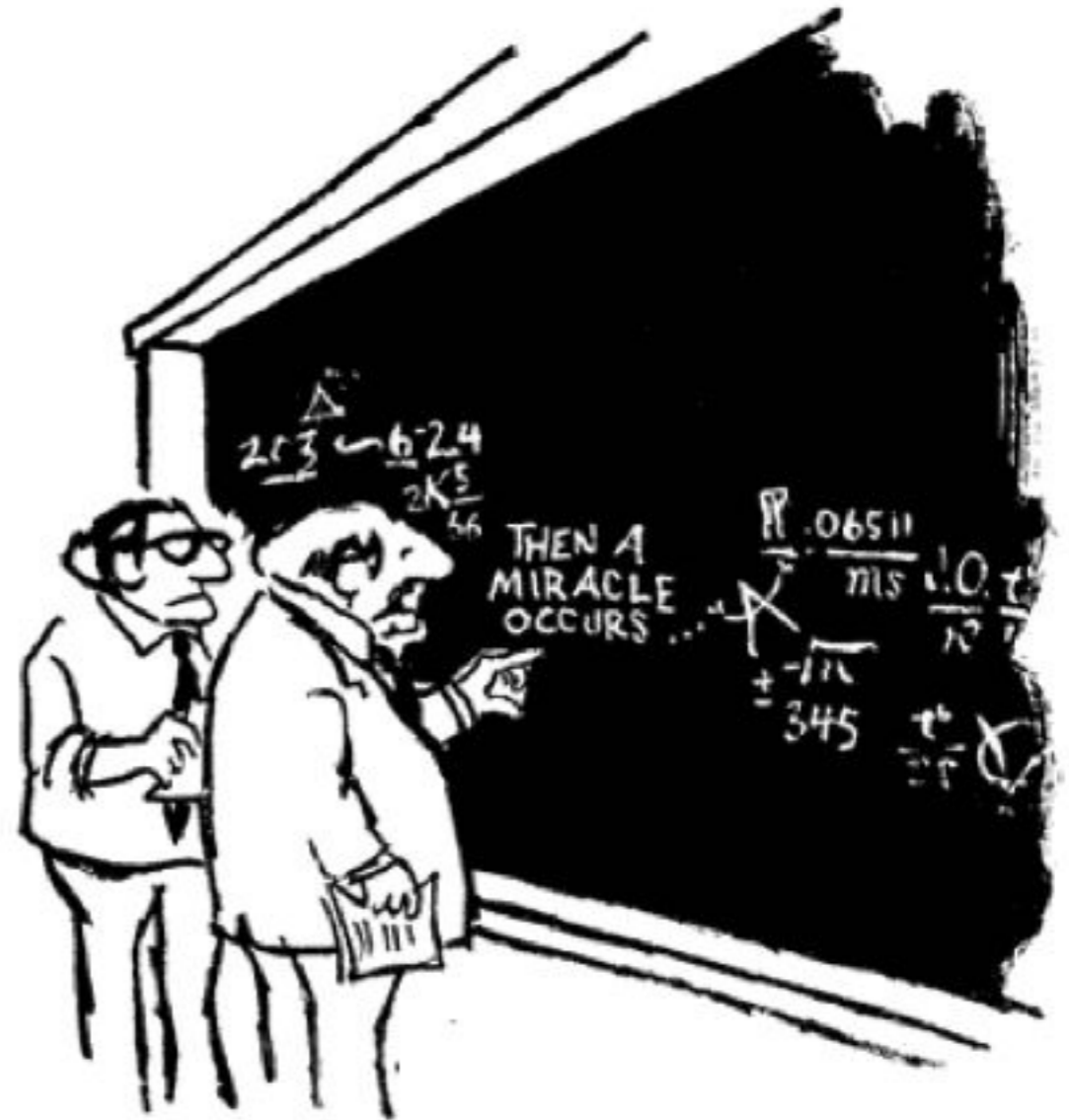
The Calc Lab

- Location: Posvar 1200A

- For Calc 1 & 2 have a lab component where students can do their online homework through LON CAPA

- During lab hours you should walk around to help students

- When a student needs help:

    1. Check for input errors

    2. Answer the right question

    3. Pen & paper

Final Exam Grading

- With the exception of night sections, Calculus courses have departmental finals

- TA's are required to help grade till all exams are assessed.

"I think your test grading is biased in favor of students who answer the test questions correctly."

Grading Exercise

I THINK YOU NEED TO BE MORE EXPLICIT IN THIS PARTICULAR STEP

If you have any questions or concerns, here are some resources:

- Course Lecturer
- Course Coordinator
- Graduate TA Mentor (Cezar Lupu)
- Fellow Graduate Students

THANKS

Questions?