Math 1210-3/4
Monday Feb 3

Exam 1 Wed!
will cover
polynomial calculus
2.1-2.7, 2.9 (meaning of continuity)
3.1-3.5

There are good review problems at the end of each book chapter - check out the TF questions!
Here are some questions of the sort I may ask: (I could also ask TF!)
p.94-95 # 9, 11 (then use chain rule to differentiate), 19, 27, 32
p.97 Exercise 3
p.80 3, 8, 11
p.105-106 17, 23
p.156-157 (Sample test Q's)
1 acf, 3 ch, 4, 5, 11, 12, 22, 39, 40, 49
43 (c. 42). Also, can you anti-differentiate from acc to vel to find position?

Topics

- Functions, graphs, curves
  - function operations
  - trig, semi, identities
  - scaling & translating curves
  - interpreting a graph
- Limits
  - intuitive notion
  - E-D definition
  - Thus
  - computation of limits
    - algebraic expressions
    - trig expressions
  - continuity
- Derivatives
  - limit def.
  - interpretations: slope, vel, rate of change etc.
  - average rate of change vs. instantaneous
  - computing vels from limit def.
  - differentiation rules
    - sum, product, quotient, chain
  - position-vel-accel problems
  & anti-differentiation

let's discuss difference between continuous & differentiable