

18.01, Oct. 6, 2003 Recitation Suggestions

1. Please explain new makeup exam policy:

- A. If you received higher than 30 on Exam 2, you may not take Exam 2 makeup.
- B. If you received 30 or less, and you still have the option, you must take the Exam 2 makeup.
- C. If you failed the in-class Exam 1 by fewer than 10 pts, you may discount Exam 1 makeup and take Exam 2 makeup (if you received 30 or less on Exam 2).

2. Go over Exam 2 in some detail. The students must master this material. Encourage students to

- come to your and my office hours
- do ALL practice problems and go through solutions.
- go to math tutoring hours.

3. Newton's method is a bit marginal: it will not appear on Exam 3. M.V.T. is more important (basis of "remainder term" in Taylor approximations). Do whatever practice prob's you want (maybe review to hammer home missed on Exam 2).

4. If lots of extra time, explain how M.V.T. gives error analysis

$$\left| f(x) - \left( f(a) + f'(a)(x-a) + f''(a)\frac{(x-a)^2}{2} \right) \right| \leq \max \left\{ |f''(c) - f''(a)| \right\} \cdot |x-a|^2, c \in (a,b)$$