

**Math 220. Exam 3 Study guide. Spring 2005. Professor Ahlgren**

- (1) The exam will be held on **Thursday**, April 7 in class.
- (2) The exam covers chapter 4.
- (3) You must know the **precise** statements of the EVT, the IVT, Rolle's Theorem, and the MVT. You will be asked to state **at least** one of these as an exam question. Little partial credit will be given; be sure to study the statements well.
- (4) You will be asked to prove **either** Theorem 11 or Theorem 13 in section 4.9. You should be sure that you have these proofs memorized.
- (5) There will be a number of questions on applications of these theorems (we have done a lot of these recently in homework).
- (6) Other important topics are:
  - L'Hopital's rule
  - Parametric equations
  - Optimization
  - Related rates
  - Newton's Method
  - Taylor polynomials