

Math 220. Exam 3 Review Sheet

Exam 3 will be held **in class** on **Wednesday, April 11**. It will cover all of chapter 4, except for section 4.1.

The outline of covered topics (in no particular order) is as follows:

- (*) (4.8, 4.9) EVT, IVT, Rolle's Theorem, MVT. You will be asked to state **at least** one of these on an exam question. Little partial credit will be given; be sure to study the statements well.
- (*) There will be a number of applications of the above theorems, as well as Theorems 11 and 13 in section 4.9. Practice problems are 4.9: 8-18, 20-22, 32, Lab 10.
- (*) L'Hopital's rule (4.2). Practice problems: 4.2: 9-30, 67, 69, 70, 77, Lab 8.
- (*) Parametric Equations (4.4). Practice problems: 4.4: 1-5.
- (*) Optimization (4.3). Practice problems: 4.3: 3, 4, 11, 12, 13, 16, 23, 24, 31
- (*) Related Rates (4.5). Practice problems: 4.5: 1-12, Lab 9.
- (*) Newton's Method (4.6). Practice problems: 4.6: 7
- (*) Taylor Polynomials (4.7). Practice problems: 8, 9, 12, 17, 18, 22, 27, 32, 33, 34, 36.