

similarly to the related rates problems of Section 2.6, but with a twist: for whatever quantity you wish to optimize, you must realize that the value you are looking for will be a local maximum of this quantity. Thus, differentiate the equation(s) that involve this quantity to find what you're looking for.

4. General Suggestions and Information. Are there any problems that I suggest that you focus your efforts on? Yes. There will be a question on the final about curve sketching (so practice graphing functions... see any of the homework from section 3.6 or any of the examples from class for good examples), and a question on the final about optimization (nothing but practicing the homework from section 3.7 will help you here, and of course, the class notes.) This is really as specific as I can be about which problems to study... after all, I'm just a continent! The content of Chapter 3, however, is a prerequisite to understanding Section 3.7, and so there may be other questions on the final regarding these topics.

In general, the final exam will be from 8-10 AM on Wednesday December 6th in our classroom (as listed on the syllabus). It will be cumulative, and you can expect that the distribution of material is consistent to how much time we spent on such material. So, since we spent most of the course on derivatives (for example) most of the final will be about derivatives. Since we spent about 10%-15% of the course on limits and the limit process, about 10% - 15% of the final will be about limits and the limit process. And so on.

My suggestions are that you study the previous tests, quizzes and homework. That, and don't wait until the last minute. Good luck, and from me, the penguins that live with me, and Corey:

ROCK ON!!!!