

# Math 213 Quiz # 1 Review Sheet

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*Hi kids. This is Adam West here to bring you a review sheet for your upcoming quiz on Wednesday. Corey doesn't always have a lot of time to write these, and since we're good friends he asked if I would write this review sheet. I agreed with some suspicion... Corey can't be trusted. Generally, before quizzes and tests Corey will have someone type a review sheet for you all letting you know how he feels about the material to be covered. Enjoy!*

1. Section 7.2: The Disk Method. This section is great. Corey recommends that you study how to revolve regions about the coordinate axes *and* other axes as we did in class. He suggests that you will be responsible for knowing how to do each on the quiz or the upcoming exams, and so review carefully these notes, and practice with the homework problems.
2. Section 7.3: The Shell Method. This section essentially asks you to compute volume of solids of revolution, as you did in the previous section, but by a different method: using shells rather than disks. A complete understanding of the shell method is helpful, but Corey suggests strongly that he won't ask anything about revolutions of regions about anything other than coordinate axes, in contrast to what is likely to be asked from Section 7.2.
3. Section 7.4: Just the stuff on Arc Length. Corey will ask a question regarding arc length on the upcoming quiz and exam (and final). Of course, there is more to this section on surface area of solids of revolution, but this will not be on the upcoming quiz. There is a formula for the arc length, as discussed in class, and Corey recommends you commit it to memory: this formula happens to be easier to use if you just memorize it, however, Corey suggests that if you are looking for a deeper understanding of the material then understanding the origins of this formula will be most helpful.