

Final Exam Review Sheet for Math 252!!!!!!

My broken jump shot

November 30, 2007



Hello everyone! This is Corey's broken jump shot, back again from, oh, the last time he tried to enjoy a game of basketball. Corey assures me he is still hard at work grading your quizzes and will post solutions just as soon as he can, but this is why he asked me to write the review sheet right now. See, your final is the first final out of his many classes and he really wants to give everyone a good heads up about the final exam. So below is one section that Corey hasn't written about yet that the exam will cover, and some general comments about the final. ROCK ON!

1. Section 7.1: Path integrals. In this section Corey introduced a new type of integral, a path integral. Besides its many real-world applications, there is mathematical interest as well. Corey suggests that you learn what the definition of this object is, and know how to compute a path integral given a function and a curve in \mathbb{R}^3 . Keep in mind that there is a useful special case of this construction, the situation where the curve γ lies entirely in the xy -plane, and the function is one of two variables. Then the path integral tells us something interesting about interior designing and ordering the correct square footage for your oddly shaped drapes. Corey insisted that I put in that comment, and assures anyone who was not in class the last day that they certainly missed out on the rousing connections between interior design and mathematics.
2. Other general comments. There was some confusion about when the final exam was scheduled, as Corey misread the final exam schedule to begin the course and put the wrong date on the syllabus. However, he's made every effort to fix this

blunder by putting up announcements on the course homepage, announcing it in class, and putting the correct date on this review sheet. The final exam will be Tuesday December 4th from 12-2 PM in our classroom. The exam will cover every section that we covered, with emphasis on the sections that we spent more time on. I suggest that you study for the final exam by simply practicing a lot of homework questions, and redoing your exams and quizzes from the course. And, of course, if you have any other questions, feel free to come see me, or write me an email. GOOD LUCK! And ROCK ON!!!!