

Midterm #2 Review Sheet

The Teenage Mutant Ninja Turtles

November 3, 2006



Hello, kids. It's the teenage mutant ninja turtles here to tell you a little bit about your exam before going off and fighting crime. Really, the exam will be a lot like the quiz, except that section 8.2 will also be covered. The best practice that us genetically altered amphibians can relay to you is to study section 8.1 very carefully. In addition, we suggest that you incorporate that knowledge into the other processes we have seen. The only other advice we have is "Don't do drugs", and ROCK ON!!!

1. Section 8.1: Basic Integration Rules. This section just reviews a lot of the rules that you've learned regarding integrals. See, when you learn different integration techniques, your homework is always geared towards that particular technique. So although you learn the technique well enough, you don't always learn the best way to spot when to use it in the future, unless it was explicitly told to you. This section throws together a bunch of stuff we've learned and asks you to sort it out yourself – after all, what will be what one needs to do in real life anyway. Keep close the class notes from that day, and use the quiz as valuable experience towards mastering this section.
2. Section 8.2: Integration by parts. This section continues on with our quest to integrate everything we see. This time, we're looking to *change* the form of an integral into a different integral, rather than solving the integral outright. I mean, life isn't always that easy. Just follow the formula $\int u dv = uv - \int v du$ to the letter and you'll be fine. Practice, practice, practice also!
3. General suggestions. This exam will be a lot like the quiz, so take special note of what exactly you missed and why. Then practice those kinds of problems and you'll be sitting in good shape for the test! Oh, and don't forget:

ROCK ON!!!!