

Math 213 Final Exam Review!

The Notre Dame Leprechaun!

March 17, 2008



Hi there laddies and lasses! Happy St. Patrick's Day! Here is your final exam review sheet. Enjoy!

1. Section 9.9: This is the section where we learn tricks to construct power series of common functions, usually related somehow to the function $\frac{1}{1-x}$. Using composition, differentiation and integration, we found great ways to construct power series for functions that would be really difficult to find using Taylor's theorem.
2. Section 9.10: Taylor and Maclaurin Series. This section asks you to construct Taylor and Maclaurin series by the definition only. This usually requires us to find lots of derivatives and a pattern somewhere within those derivatives. See the homework problems for good practice!
3. Section 10.2: Parametric curves. In this section, we learned basic curve sketching techniques. In particular, one learns that the elimination of variables is a great way to take a parametrically defined curve and change it into a relationship between x and y which is much easier to graph.