Math 107-250/350 **Homework #1** **12 Jan '07**

Due **Tuesday** Jan 16, at the start of the recitation.

It is **very** important that you clearly show what you are doing and that what you write makes sense and follows proper mathematical form. A correct answer poorly explained will not get full marks.

This time only, you can get two bonus points for turning in **both** your first draft and a rewritten, well-organized second draft.

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1. Using a suitable substitution, evaluate $\int t(1+t)^{1/4}\,dt$.

   Be prepared to take several tries to find the right substitution; you may want to look at what we did in class on Wednesday or the "challenge integrals" on the course website: `http://www.math.unl.edu/~adonsig1/107.html`.