Quiz #11, Friday November 13  
Math 221 Lecture EL1

Instructions. Be sure to show your work and explain your reasoning where necessary for full credit. This quiz has three problems, and two pages

1. Find the indefinite integral

\[ \int \sec t (\sec t + \tan t) \, dt \]

2.

\[ \int_0^1 x (\sqrt[3]{x} + \sqrt[4]{x}) \, dx \]
3. Find $dy/dx$

$$y = \int_{1-3x}^{1} \frac{t^3}{1+t^2} \, dt$$