

12pm

Quiz 9

Fall 2012

Your name: _____

Math 0220

Your TA's name: _____

No calculators, no notes, no books. Show all your work (no work = no credit). Write neatly. Simplify your answers.

1. [5 points] Find $g'(x)$ if $g(x) = \int_{x^2}^3 \frac{\sqrt{\sin t}}{t + \cos t} dt$.

2. [5 points] Evaluate the definite integral $\int_0^1 \frac{x}{e^{2x}} dx$.

bonus problem [5 points extra] Evaluate the integral $\int \tan^3 x \sec^4 x \, dx$