

## Open Book Quiz

Intermediate Calculus & Analytic Geometry (MATH 242 A) Date: October 8, 2013

Name:

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1. (3 pt) Find  $(f^{-1})'(a)$  when  $f(x) = 3x^3 + 3 \sin x + 2 \cos x$ ,  $a = 2$ .

2.(4 pt) Evaluate the integral. (Use  $C$  for the constant of integration.)

$$\int \frac{(2 + e^x)^2}{e^x} dx$$

3.(3 pt) Evaluate the integral.

$$\int e^x (1 + e^x)^5 dx$$