

April 14, 2006    QUIZ 10a    MATH 104    NAME \_\_\_\_\_  
**SHOW ALL YOUR WORK.**  
**YOU MAY NOT SHARE CALCULATORS.**

(8) 1. Find the following indefinite integrals:

(a)  $\int \left( 2x^{-3} + \frac{5}{e^{4x}} \right) dx$

(b)  $\int \left( \frac{5t + 7t^4}{t^2} \right) dt$

(7) 2. Use the substitution method to find the indefinite integral

$$\int x^2 \sqrt{3 + 4x^3} dx.$$

Clearly indicate what substitution  $u$  you are using and show all your work.