	DUE: MON. MAR. 10
Name:	
Date:          Time Begun:          Time Ended:	Friday March 7 Ron Buckmire
<b>Topic covered:</b> Integration by Patution	arts and/or Intergration by Substi-
The point of this quiz is for you to demonstrate y evaluate an indefinite integral, and to check your answer	
Reality Check:	
EXPECTED SCORE :/10	ACTUAL SCORE :/10
Instructions:	
1. Once you open the quiz, you have 30 minutes should check Blackboard.oxy.edu for any hints	
2. You <b>may not</b> use the book or any of your cl must work alone.	ass notes, but you may use a calculator. You
3. If you use extra paper, please staple it to the a stapler, buy one.	quiz before coming to class. If you don't have
4. After completing the quiz, sign the pledge belo to these rules. Complete the reality check to g did on the quiz.	w stating on your honor that you have adhered give yourself a sense of how well you think you
5. Relax and enjoy	
	at the beginning of class. NO LATE QUIZZES

Pledge: I, \_\_\_\_\_\_\_, pledge my honor as a human being and Occidental

student, that I have followed all the rules above to the letter and in spirit.

## SHOW ALL YOUR WORK

(a) (2 points) Show that if  $F(x) = \frac{x^3}{3} \ln(x^3) - \frac{x^3}{3}$  then  $F'(x) = x^2 \ln(x^3) = f(x)$ 

(b) (4 points) Evaluate the integral  $\int x^2 \ln(x^3) dx = \text{using integration by parts.}$  (Check your answer!)

(c) (4 points) Evaluate the integral  $\int x^2 \ln(x^3) dx = \text{using integration}$  by substitution. (Check your answer!)