Quiz 8	DUE: WED. OCT. 30
Name:	
Date: Time Begun: Time Ended:	Monday October 28 Ron Buckmire
Topic covered: Techniques of In	tegration
The idea behind the quiz is for you to illustrate evaluate definite integrals using the fundamental theorem.	your proficiency with techniques of integration to em of calculus.
Reality Check:	
EXPECTED SCORE :/10	ACTUAL SCORE :/10
Instructions:	
1. Once you open the quiz, you have 30 minutes	s to complete it.
2. You <b>may not</b> use the book or any of your must work alone.	class notes, but you may use a calculator. You
3. If you use your own paper, please staple it that have a stapler, buy one.	o the quiz before coming to class. If you don't
4. After completing the quiz, sign the pledge bel to these rules.	ow stating on your honor that you have adhered
5. Relax and enjoy	
6. This quiz is due on Wednesday, Octobe QUIZZES WILL BE ACCEPTED.	r 30, at the beginning of class. NO LATE
<b>Pledge:</b> I,, pledg	ge 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

(20 points) Given the following information about an unknown function g(x)

$$\int_{1}^{2} \frac{g(u)}{u^{2}} \ du = 3, \quad \int_{\frac{1}{2}}^{2} \frac{g(u)}{u^{2}} \ du = 5, \quad g(1/2) = 2, \quad g(1) = -2, \quad g(2) = 1, \quad g(4) = 4$$

(a) Evaluate 
$$I = \int_{1}^{2} g\left(\frac{1}{x}\right) dx$$

**(b)** Evaluate 
$$J = \int_{1/2}^2 \frac{g'(x)}{x} dx$$