1.1acm 120 & pring 2000	
Quiz 8	DUE: WED. APR. 2
Name:	
Date: Time Begun: Time Ended:	
Topic covered: Improper I	ntegrals
The point of this quiz is for you to demon integrals, using the Fundamental Theorem and	strate your understanding and ability to evaluate improped also using Comparison Techniques.
Reality Check:	
EXPECTED SCORE :/1	.0 ACTUAL SCORE :/10
Instructions:	
1. Once you open the quiz, you have 30 should check Blackboard.oxy.edu for a	minutes to complete it. Before you open the quiz you any hints.
2. You may not use the book or any of must work alone.	of your class notes, but you may use a calculator. You
3. If you use extra paper, please staple a stapler, buy one.	it to the quiz before coming to class. If you don't have
	edge below stating on your honor that you have adhered heck to give yourself a sense of how well you think you
5. Relax and enjoy	
6. This quiz is due on Wednesday, A WILL BE ACCEPTED.	April 2, 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.

EXPLAIN YOUR ANSWERS

(a) (5 points) Does the following integral converge or diverge? WHY?

$$\int_{-\infty}^{0} e^{t} dt$$

(b) (5 points) Does the following integral converge or diverge? WHY?

$$\int_{1}^{\infty} \frac{1}{s^2 + s} ds$$

(HINT: You will have to answer the question WITHOUT knowing the anti-derivative of $\frac{1}{s^2+s}$, i.e. you will need to use the Comparison Theorem.)