Quiz 6	Basic Calculus I
Name:	Math 110
Date: Time Begun: Time Ended:	Wednesday, October 18, 2000 Ron Buckmire

Topic: Rules of Differentiation

The idea behind this quiz is to assess your ability to apply the rules of differentiation to various examples.

Instructions:

- 1. Once you open the quiz, you have 30 minutes to complete it.
- 2. You may use the handout on Rules of Differentiation distributed in Class 22, but not your text or any other source, including course materials. You may use a calculator. You must work alone.
- 3. If you use your own paper, please staple it to the quiz before coming to class. If you don't have a stapler, buy one.
- 4. After completing the quiz, sign the pledge below stating on your honor that you have adhered to these rules.
- 5. Your solutions must have enough details such that an impartial observer can read your work and determine HOW you came up with your solution.
- 6. This quiz is due on Friday, October 20, at the beginning of class. NO LATE QUIZZES WILL BE ACCEPTED.

Pledge: I,,	pledge my	honor	as a	human	being	and	Occidental	student
that I have followed all the rules above to t	he letter ar	nd in spi	irit.					

SHOW ALL YOUR WORK

(a) (4 points.) $f(x) = 4e^x \sin(x)$. Evaluate f'(0).

(b) (3 points.) Given $g(s) = \frac{\ln(s)}{2s}$, compute g'(s).

(c) (3 points.) Given $h(t) = \frac{1}{\sqrt{t}} + 2^t + 4t^2$, find h'(t).