Quiz **2**

DUE: MON. FEB. 3

Name: _____ **Prof. Ron Buckmire**

Date: _____ **Friday January 31**
Time Begun: _____
Time Ended: _____

Topic covered: Using the Fundamental Theorem of Calculus

The **student learning outcome** of this quiz is for you to illustrate your understanding of the Fundamental Theorem of Calculus.

Reality Check:

EXPECTED SCORE : _____**/10** ACTUAL SCORE : _____**/10**

Instructions:

1. Once you open the quiz, you have 30 minutes to complete it.
2. You **may not** use the book or any of your class notes, but you may use a calculator. You must work alone.
3. If you use extra paper, please staple it to the quiz before coming to class. UNSTAPLED SHEETS WILL NOT BE GRADED.
4. After completing the quiz, sign the pledge below stating on your honor that you have adhered to these rules. Complete the reality check to give yourself a sense of how well you think you did on the quiz.
5. Relax and enjoy....
6. **This quiz is due on Monday, February 3**, 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 the letter and in spirit.

Math 120 Spring 2014 Quiz **Two**

SHOW ALL YOUR WORK AND EXPLAIN EVERY ANSWER

Adapted from **Stewart, Section 5.3, Problem 69**. Suppose h is a polynomial function such that

$$h(1) = -2, h'(1) = 2, h''(1) = 3, h(2) = 6, h'(2) = 5, h''(2) = 13$$

For each of the following expressions, evaluate it exactly (if possible). If you can not evaluate the expression, explain why

1 (a) (*2.5 points*) $\int_1^2 h''(s)\, ds$

1 (b) (*2.5 points*) $\frac{d}{dx}\int_1^2 h(s)\, ds$

1 (c) (*2.5 points*) $\int_1^2 h(s)\, ds$

1 (d) (*2.5 points*) $\frac{d}{dx}\int_1^x h(s)\, ds$