Quiz **2**

DUE: WED. FEB. 5

Name: _____

Date: _____ **Monday February 3**
Time Begun: _____ Ron Buckmire
Time Ended: _____

Topic covered: Evaluating Definite Integrals Using Accumulation

The point of this quiz is for you to illustrate your ability to evaluate definite integrals using accuumulation

Reality Check:

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

Instructions:

1. Once you open the quiz, you have 30 minutes to complete it. Before you open the quiz you should check Blackboard for any hints.
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. 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. 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 Wednesday, February 5**, 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.

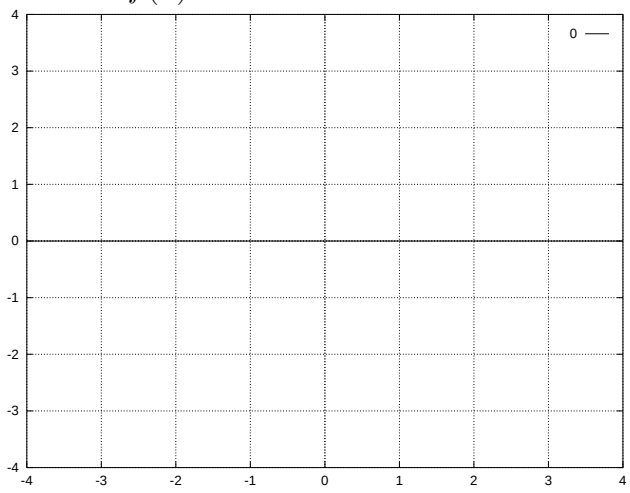
Math 120 Spring 2003 Quiz **Two**

SHOW ALL YOUR WORK

1. Given

$$f(x) = \begin{cases} -1, & \text{if} \quad -4 \le x < 0 \\ x - 1, & \text{if} \quad 0 \le x \le 4 \end{cases}$$

(a) (*3 points*) Sketch the function $f(x)$ on the axes below



(b) (*2 points*) Use your graph to help you evaluate $\int_{-4}^{0} f(x)\,dx$ *exactly.*

(c) (*2 points*) Use your graph to help you evaluate $\int_{0}^{4} f(x)\,dx$ *exactly.*

(d) (*3 points*) Use your previous answers to help you evaluate $\int_{-4}^{4} f(x)\,dx$ *exactly.*