Quiz 2

DUE: WED. FEB. 5

Name: ____________________________

Date: ________________
Time Begun: ____________________
Time Ended: ____________________

Monday February 3
Ron Buckmire

Topic covered: Evaluating Definite Integrals Using Accumulation

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

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.
1. Given
\[ f(x) = \begin{cases} 
-1, & \text{if } -4 \leq x < 0 \\
 x - 1, & \text{if } 0 \leq x \leq 4 
\end{cases} \]

(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.