## BONUS Quiz 4

DUE: WED. APR. 9

Name: $\qquad$

Date: $\qquad$

Prof. Ron Buckmire

Friday March 7
Time Begun: $\qquad$ Time Ended:

## Topic covered: Infinite Series

The student learning outcome of this quiz is to give you even more practice in applying convergence tests to infinite series.

## Reality Check:

EXPECTED SCORE : ___ $/ \mathbf{1 0}$
ACTUAL SCORE : $\qquad$ /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 Wednesday, April 9, at the beginning of class. NO LATE QUIZZES WILL BE ACCEPTED.

Pledge: I, $\qquad$ pledge my honor as a human being and Occidental student, that I have followed all the rules above to the letter and in spirit.

## SHOW ALL YOUR WORK!

Math 120 Spring 1996 Final Exam, Question \#2.
Use the $N^{\text {th }}$ Term test, the Basic Comparison Test or the Limit Comparison Test to determine whether or not the following infinite series converge or not.
(i) $\sum_{k=1}^{\infty}\left(\frac{2^{k}}{3^{k}}\right) \frac{1}{k^{4}}$
(ii) $\sum_{k=1}^{\infty} \cos (2 \pi k)$
(iii) $\sum_{k=1}^{\infty}\left(\frac{k^{2}+3}{k^{2}}\right) \frac{1}{k^{2}}$

