BONUS QUIZ 4

Name: _____

Date: _____

Friday February 17 Ron Buckmire

Topic : Gauss-Jordan Elimination and Matrix Inverse

The idea behind this quiz is for you to illustrate your understanding of how to compute a matrix inverse.

Reality Check:

EXPECTED SCORE : ____/10

ACTUAL SCORE : ____/10

Instructions:

- 0. Please look for a hint on this quiz posted to faculty.oxy.edu/ron/math/214/06/
- 1. Once you open the quiz, you have **30 minutes** to complete, please record your start time and end time at the top of this sheet.
- 2. You may use the book or any of your class notes. 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. NO UNSTAPLED QUIZZES WILL BE ACCEPTED.
- 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. Relax and enjoy...
- 7. This quiz is due on Monday February 20, in 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.

Linear Systems

Math 214 Spring 2006 SHOW ALL YOUR WORK

1. TRUE or FALSE – put your answer in the box (1 point). To receive FULL credit, you must also give a brief, and correct, explanation in support of your answer! Remember if you think a statement is TRUE you must prove it is ALWAYS true. If you think a statement is FALSE then all you have to do is show there exists a counterexample which proves the statement is FALSE at least once.

(a) TRUE or FALSE? "If a set of vectors in \mathbb{R}^n is linearly dependent, then the set must contain more vectors than there are components in each vector."



(b) TRUE or FALSE? "The matrix products AA^T and A^TA are defined for every matrix A."

