Linear Algebra    Spring 06    Homework 2

Due Monday, March 13 at the beginning of class.
No late homework will be accepted.

Name:

This homework is worth 30 points. For credit, show all your work in a clear and organized manner. No credit will be given if you just write the answer. Points will be taken off for writing inconclusive proofs.

1. (2 points) §11, page 133 (Section 3.2).
2. (4 points) §12, page 133 (Section 3.2).
3. (1 point) §13, page 133 (Section 3.2).
4. (2 points) §16, page 145 (Section 3.3).
5. (2 points) §17, page 145 (Section 3.3).
6. (3 points) §1 (b), page 167 (Section 3.6). First transform the matrix into reduced row echelon form. Clearly indicate the elementary row operations that you perform at each step.
7. (2 points) §14, page 169 (Section 3.6).
8. (4 points) §2, page 173 (Chapter 3 Test).
9. (6 points) §8, page 174 (Chapter 3 Test).
10. (4 points) §11, page 174 (Chapter 3 Test).