

**UH - Math 4377/6308 - Dr. Heier - Fall 2011**

**HW 11**

**Due 11/9, at the beginning of class.**

**Use regular sheets of paper, stapled together.**

**Don't forget to write your name on page 1.**

1. (1 point) Prove that a square matrix with a row of zeroes has determinant equal to zero. You may use only the expansion along the first row and induction.
2. (1 point) Section 4.2, Problem 4
3. (1 point) Section 4.2, Problem 7
4. (1 point) Section 4.2, Problem 9
5. (1 point) Section 4.2, Problem 12
6. (1 point) Section 4.2, Problem 14
7. (1 point) Section 4.2, Problem 21
8. (1 point) Section 4.2, Problem 22
9. (1 point) Section 4.2, Problem 23
10. (1 point) Section 4.2, Problem 27
11. (1 extra credit point) Section 4.2, Problem 30