Homework 1

Due date: Tuesday, January 16

1. Franklin Chapter 1, Problem 2, page 9.
2. Franklin Chapter 1, Problem 3, page 9.
3. Franklin Chapter 1, Problem 4, page 9.
4. Franklin Chapter 1, Problem 4, page 13.
5. Franklin Chapter 1, Problem 5, page 20.
6. Franklin Chapter 1, Problem 4, page 23.
7. Suppose that every row of A adds up to zero. What is the determinant of A?
8. If the entries of A and A^{-1} are all integers, how do you know that both determinants are 1 or -1?