MATH 3A HOMEWORK 5
DUE: Monday, Nov 21

READING ASSIGNMENT: Read Sections 3.1, 3.2, 3.3.

PROBLEMS FROM TEXTBOOK:
Section 3.1: 1, 9, 19, 20, 21, 33, 34
Section 3.2: 5, 11, 21, 24, 32, 33
Section 3.3: 22, 23, 27, 28, 31

ADDITIONAL PROBLEMS:
True of False (justify your answer):

(a) For any two $n \times n$ matrices A, B, $det(A + B) = det(A) + det(B)$.

(b) If $det(A) = 0$, then A must have two rows or columns that are equal.

(c) $det(B^{-1}AB) = det(A)$.

(**Hint**: In some cases above, if your answer is false, then you should give a counterexample.)