Elementary Linear Algebra - MATH 2250 - Quiz 17

Name:

1. T F $\det(A+B) = \det(A) + \det(B)$, for any two matrices A and B.

2. T F $\det(cA) = c \det(A)$, for any real number c and any matrix A.

3. T F $\det(A) = 0$, if and only if A = O, the zero matrix.

4. T F $\det(P) = 1$, for any permutation matrix P.

5. T F $\det(AB) = \det(A) \det(B)$, for any two matrices A and B.

6. T F $\det(A^{-1}) = \det(A)$.

7. Evaluate $\begin{vmatrix} 1 & 1 & 1 \\ 1 & 1 & 2 \\ 1 & 2 & 3 \end{vmatrix}$.