

Quiz 11

1. (5 points) Compute $\begin{vmatrix} 5 & 1 & -6 \\ 3 & -2 & 1 \\ -2 & 7 & 1 \end{vmatrix}$

2. (5 points) Let $A = \begin{bmatrix} 2 & -3 & 7 & 8 \\ 0 & 1 & 2 & -9 \\ 0 & 0 & -4 & 2 \\ 0 & 0 & 0 & 5 \end{bmatrix}$

a. Find $\det(A)$ by cofactor expansion.

b. By just looking at the original matrix, could you compute the determinant without finding the determinants of any submatrices? If so, what would you look at?