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1. [6pts] Let 
$$A = \begin{bmatrix} 1 & -2 & 1 & -1 \\ 2 & -4 & 3 & 2 \\ 5 & -11 & 2 & -6 \\ 1 & -1 & 1 & 3 \end{bmatrix}$$
. Use row operations to compute det(A).

2. [4pts] Find  $2 \times 2$  matrices A and B such that  $\det(A + B) \neq \det(A) + \det(B)$ .