

Assignment 1 (Use Python)

1. Find the order of $\begin{pmatrix} 1 & 34 & 5 & 2 \\ 5 & 2 & 6 & 7 \\ 2 & 6 & 89 & 0 \end{pmatrix}$

2. $\text{transpose} \begin{pmatrix} 1 & 2 & 4 \\ 1 & 4 & 65 \end{pmatrix} \cdot \begin{pmatrix} 13 & 4 & 3 & 56 \\ 21 & 4 & 45 & 32 \end{pmatrix}$

3. $\det \begin{pmatrix} 1 & 43 & 2 \\ 5 & 21 & 45 \\ 6 & 2 & 5 \end{pmatrix}$

4. $\text{inverse} \begin{pmatrix} 1 & 4 & 21 \\ 5 & 3 & 6 \\ 2 & 2 & 6 \end{pmatrix}$