

Matrices: Inverses - Exercises (1 page ; 3/6/26)

(1) Prove that $\begin{pmatrix} a & c \\ b & d \end{pmatrix}^{-1} = \frac{1}{ad-bc} \begin{pmatrix} d & -c \\ -b & a \end{pmatrix}$

(2) Show that if N is the left inverse of M , so that $NM = I$, then it is also the right inverse.

(3) Assuming that $(AB)^T = B^T A^T$, prove that $(A^T)^{-1} = (A^{-1})^T$