

Assignment - IV

1) Determine whether all matrices of the form $\begin{pmatrix} a & b \\ 0 & c \end{pmatrix}$ is a subspace of M_{22}

2) Determine whether

$W = \left\{ \begin{pmatrix} a & b \\ c & d \end{pmatrix} \in M_{22} \mid b = c = 0 \right\}$ is a subspace under standard matrix addition and scalar multiplication.