

Quiz 3

1. Determine if the set H of all matrices of the form $\begin{bmatrix} a & b \\ 0 & d \end{bmatrix}$ is a subspace of $M_{2 \times 2}$.

2. Given $A = \begin{bmatrix} 1 & 10 & 2 & -4 \\ -3 & 2 & -2 & -8 \\ 4 & -1 & 3 & 9 \end{bmatrix}$. Find a basis for

(a) Col A

(b) Nul A