

Q1: a Prof. King wears glasses Circle one:
True! Yes! Who?

b Let $M := \begin{bmatrix} 0 & 1 & 1 & 1 \\ 1 & 2 & 4 & -1 \\ 1 & 1 & 3 & -2 \end{bmatrix}$ and $R := RREF(M)$. Then

$$R = \begin{bmatrix} & & & \\ & & & \\ & & & \end{bmatrix}.$$

c Let $\mathbf{u}, \mathbf{v}, \mathbf{w}, \mathbf{t}$ be the column-vectors of M . Are there scalars α, β, γ such that $\alpha\mathbf{u} + \beta\mathbf{v} + \gamma\mathbf{w} = \mathbf{t}$? Write $(\alpha, \beta, \gamma) = \underline{\hspace{1cm}}$ or write "None" if there is no such triple.

d The dimension of $\text{Spn}(\{\mathbf{u}, \mathbf{v}, \mathbf{w}\})$ equals $\underline{\hspace{1cm}}$.

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