1) [Quiz 6 Q2] Suppose that A is an $n \times n$ matrix having n linearly independent eigenvectors. Show that A^T also has n linearly independent eigenvectors.

2) [Hand-in Proof?]

2) Use coodicts map

T: P2 - P23

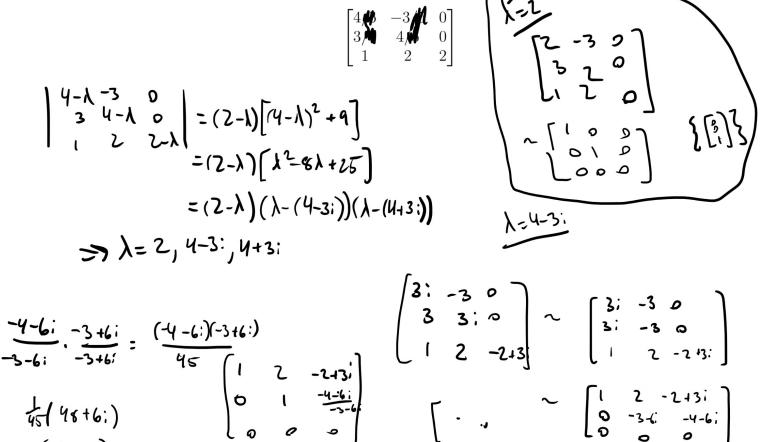
[!], [-!], [\$] are L.I.

V. V2 V3 & Sharthis

L. & V1, V2, V3 & Spor & P1 93

by The 4.10, & V1, V2, V3 & ar L.D.

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4) [6.1 Q14] Find the distance between $u = (0, -5, 2)^T$ and $v = (-4, -1, 4)^T$.

$$\begin{bmatrix} 0 \\ -5 \\ 2 \end{bmatrix} - \begin{bmatrix} -4 \\ -1 \\ 4 \end{bmatrix} = \begin{bmatrix} 4 \\ -4 \\ -2 \end{bmatrix}$$

$$\left| \left[\begin{bmatrix} 4 \\ -4 \\ -2 \end{bmatrix} \right] \right| = \int |b| + |b| + |a| = \int 36 = 6$$

1, (16+2:)