$A \cdot \begin{cases} 5 & -40 \\ 1 & 0 & 2 \\ 0 & 25 \end{cases}$ 6.6 the Matrix 1s not Elagonoble sine it Loesn't A- NI = 0 houre 3 eigenvectors. 5-2 -40 1 -2 2 = 0 3 25-2 (5-X) ((-X) (5-X)-4] + 4(5-X] = 0-=(5-CN)(-5N+N-)=U if \ -5 \ \ \ -5 \ = 0. Therefore $\lambda = 0.5$. 1 0.5,5 are elyenvalues elgan vector at 1=0. $\begin{cases} 5 - 4 & 0 \\ 1 & \sigma^2 \\ 0 & 28 \end{cases} \begin{pmatrix} x \\ 4 \\ 2 \end{pmatrix} = 0 \qquad V_1 = \begin{pmatrix} -27 \\ -\frac{5}{3} \\ 1 \end{pmatrix}$

e! nonveiler at 1=5 (0+0)(91)=0 $V_2=[-2]$ (0-2)(2)=0