













Ay X - plane: PX = OX 1=0 A=['] X=['] Ax=['] \ \ \= 1 X=[-1] AX=[1] X=-1 How to solve Ax= 1x? (A-11) x=0 det (A-22)=0 A=[; ] det(A-x2)=[;-> = x=6x+8=6-4)(x-2)
A-41=[;-1] A->1=[;-1] #1862 x1= [] X2= [-1]

Forgle Q= [] 0] A=[3 1] = (3-1) 2 1=3 1=3 4366 = X=[0] Estroit degenerate matrix 822 XTAXIMANZ suppre n idgo eigenvectors of A. Put them in columns of S eigen value matrix AS=SA 5-145=A A=S/15-1 | f Ax=2x . A1x= xAx > 21x -> A2= SAS-15AS-1=SA2S-1 AK= SAKS-1 Theorem At so aslesso fall | \( \) | < | Ais sure to have n indep events (and can be diagonalizable) of all the x's oute different (no repeated x's)

