

$$\beta = A^{+}$$

$$A \times = \lambda \times$$

$$A \times - \sqrt{\lambda} \times = 0$$

$$(A - \lambda I) \times = 0$$

XŧO

Want B, Singular

Det (B) = 0

A =
$$\begin{bmatrix} 1 & 2 \\ 3 & 4 \end{bmatrix}$$

Det $\begin{bmatrix} 1 & 2 \\ 3 & 4 \end{bmatrix}$

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$$\frac{(1-\lambda)(4-\lambda)-6}{2\lambda^{2}-5\lambda^{-2}=0}$$

$$\frac{1}{2\lambda^{2}-5\lambda^{-2}=0}$$

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$$\frac{1}{2\lambda^{2}-5\lambda^{2}$$

D= A(A'A) A

$$A \times = \lambda \times \qquad \text{det}(A) \neq 0$$

$$A' \times = \lambda A' \times \qquad \lambda_c \neq 0$$

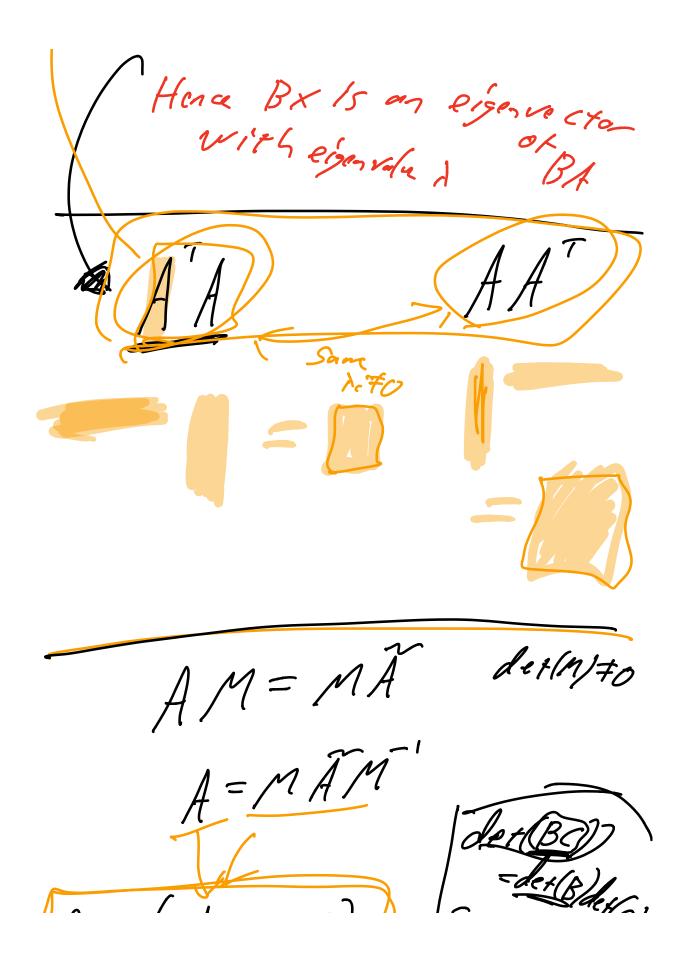
$$X = \lambda A' \times \qquad \lambda_c \neq 0$$

$$A \times = \lambda A' \times \qquad \lambda_c \neq 0$$

$$A' = A' \times A' \times A'$$

BA(Bx) = A(Bx) BA(Bx) = A(Bx)

X + 0 X + 0 X + 0



det/A-14/ = det (MAM-XI) = det (MAM' - \mathre{M}) = $det(M(\tilde{A}-\lambda I)M^{-1})$ = det(m) det(A-AI) des(n-1) $= det(\tilde{A} - \lambda I)$

 $A^2 = M \Lambda M M \Lambda$ = MAZM = M [] 2] M-1 ·bbonaci

 $\gamma(v) = \gamma(u-1) + \gamma(u-2)$ $\chi(n) = A \chi(n)$ X(1)=(1,0)

X(2)= AX(1) $\chi(3) = A \chi(2) = AA \chi(1) = A^{2}\chi(1)$ $\dot{X}(x) = A X(t)$ $A = \begin{bmatrix} 1 & 1 \\ 1 & 0 \end{bmatrix}$ = MAM \[\langle \la

SAQAQ FORAT

 $Q = \begin{cases} 1 & 1 \\ 9 & 9 \\ 1 & 1 \end{cases}$ Spector Decamp Makery.