Sunas JAIN 19CS30048 Critian AT n=0 & bTn =0 [Taking townshow
both sides]

Comptant a new matrin [$C = \begin{cases} a_{11} & a_{21} & a_{31} \\ a_{12} & a_{22} \\ b_{1} & b_{22} \end{cases} = \begin{bmatrix} A^{T} \\ B^{T} \\ b^{T} \end{bmatrix}$ we know that $C \eta = 0 \quad \text{since} \quad A^{T} \eta = 0 \quad \chi$ $h^{T} \eta = 0$

bT7 =0 => so all the elements of Cn will become O.

=> That implies if n is non-zero (given) then CX=0 has a solution. => That implies rows and columns

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d, (a, par, pazi) + d2 (a, pazi a) = has a solution with the $(b, b-b_3)$ honce for An = b. $\mathcal{R} = \left(\frac{d}{dx} \right)$ will always exist