

OB IF A & es invertible.

them. Rg - Rg - VATRA

$$\begin{bmatrix} \mathbf{J} & \mathbf{0} \\ -\mathbf{V}\mathbf{A}^{\mathsf{d}} & \mathbf{J} \end{bmatrix} \begin{bmatrix} \mathbf{A} & \mathbf{U} \\ \mathbf{V} & \mathbf{C} \end{bmatrix} = \begin{bmatrix} \mathbf{A} & \mathbf{U} \\ \mathbf{0} & -\mathbf{V}\mathbf{A}^{\mathsf{d}}\mathbf{U} + \mathbf{C} \end{bmatrix}$$

C: 2 - 1 UATCI

$$= \begin{bmatrix} A & 0 \\ 0 & -VA^{T}U+C \end{bmatrix}$$

$$= \begin{bmatrix} A & UA^{\dagger} \left(-VA^{\dagger}U+C\right) \end{bmatrix} \begin{bmatrix} I & O \\ -VA^{\dagger} & I \end{bmatrix}$$

$$= \begin{bmatrix} A & VA^{\dagger}U+C \end{bmatrix} \begin{bmatrix} VA^{\dagger} & VA^{\dagger}U+C \end{bmatrix} \begin{bmatrix} VA^{\dagger} & VA^{\dagger}U+C \end{bmatrix}$$

$$= \begin{bmatrix} -\sqrt{4} & -\sqrt{4} & -\sqrt{4} & -\sqrt{4} & -\sqrt{4} & -\sqrt{4} \\ -\sqrt{4} & (-\sqrt{4} & +c) & \sqrt{4} & -\sqrt{4} & -\sqrt{4} \\ -\sqrt{4} & (-\sqrt{4} & +c) & \sqrt{4} & -\sqrt{4} & -\sqrt{4} \end{bmatrix}$$

@ Snu both @ & B and sind given involve of P so they must be same J from Dart @ A-UAT (-VATU+c)VAT = A- UZV = UCV = UAT (-VATU +C) VAT (A-UCTV) (-UCT) UAT (-VATU+C) = = - VCT (A-€ UCV) -EVATU+C) AT - VATU+C = -VCT (A-UCTV) (-VCT)+C 944= on some simple fraken we can set Legure expression