KUBE HW

$$\left[\left(\begin{bmatrix} 1 & 2 \\ 2 & 4 \end{bmatrix}, \begin{bmatrix} 5 & 6 \\ 7 & 8 \end{bmatrix} \right) = \operatorname{tr} \left(\left[\begin{bmatrix} 1 & 3 \\ 2 & 4 \end{bmatrix} \right] \begin{bmatrix} 5 & 6 \\ 7 & 8 \end{bmatrix} \right) = \mathcal{U} + \mathcal{U} \mathcal{V} = \begin{bmatrix} 1 & 6 \\ 2 & 4 \end{bmatrix}$$

2.
$$|\lambda| - A| = (\delta^{-1})(\delta^{-1}) = (\delta^{-1})(\delta^{-1})$$

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$$\|(x^{T}, y^{T})^{T}\|_{L^{\infty}(\Omega; A \cdot B)} = \widehat{\int \alpha \|x\|_{A}^{2} + \|y\|_{B}^{2}}$$

$$\Re || || t ||_{(a,A,B)}^* = \sup_{\|s\|_{(a,A,B)} \le |} t^T s = \sup_{\|s\|_{(a,A,B)} \le |} || c^T \times t d^T y$$