Escaneado con CamScanner

FECHA DE INICIO: 30/09/2019

INTERVENTORIA:

SUPERVISION: Secretaria de Planeación Municipal.

Para mayor con rancia, se firma por osocia intovinjeron, a los treinta (30) dias del me

CONSOSSITAINTER PADRRIS

I
$$(pa)^{-1} = a^{-1}p^{-1}pa$$

$$(pa)^{-1} \cdot pa = a^{-1}p^{-1}pa$$

$$I = a^{-1}Ia = a^{-1}a$$

$$I = I$$

a) III
$$[P,Q] = PQ - QP = Q$$

$$\Rightarrow PQ = QP \Rightarrow Q^{-1}PQQ^{-1} = Q^{-1}QPQ^{-1}$$

$$= Q^{-1}P = PQ^{-1}$$

COUNTRY OF ODIS

$$II \left(e^{p}\right)^{\dagger} = e^{p^{\dagger}}$$

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$$\begin{array}{c} \boxed{\square} \quad (e^{\parallel}) = e^{\parallel} \\ (\boxed{\square} + \boxed{\square} + \frac{\boxed{\square}^2}{2} + \cdots)^{\dagger} = \boxed{\square} + \boxed{\square} + \boxed{\square} + \frac{\boxed{\square}^2}{2} + \cdots \\ = e^{\parallel} \\ = e^{\parallel} \\ \end{array}$$

 $= I + PaP^{-1} + \frac{(PaP^{-1})^2}{2} + \frac{(PaP^{-1})^3}{31} + \dots$

b)
$$A = A^{\dagger}$$

$$A = U^{\dagger} A U \longrightarrow PREMULTIPLICAR POR$$

$$(UA)^{\dagger} = (AU)^{\dagger}$$

$$A^{\dagger} U^{\dagger} = U^{\dagger} A^{\dagger} \longrightarrow A = A^{\dagger}; U^{\dagger} U^{\dagger} U^{\dagger}$$

$$\tilde{A}^{\dagger} = U^{-1} A$$

C)
$$A = A^{\dagger} \Rightarrow e^{iA} \in S$$
 UNITARIO
 $U = e^{iA}$, $U^{\dagger} = e^{-iA^{\dagger}} = e^{-iA}$
 $= > UU^{\dagger} = e^{iA} e^{-iA} = I$
 $I = U^{\dagger}U = e^{-iA} e^{iA}$

d)
$$\tilde{K} = \tilde{J}A$$
 $\tilde{K} = U^{T}KU$

$$(U\tilde{K})^{\dagger} = (KU)^{\dagger}$$

$$\tilde{K}^{\dagger}U^{-1} = U^{T}K^{\dagger}U$$

$$\tilde{K}^{\dagger}U^{-1} = U^{T}K^{\dagger}U = (\tilde{J}A)^{\dagger} = -\tilde{J}A^{\dagger}$$

$$\tilde{K}^{\dagger}U^{-1} = U^{T}K^{\dagger}U = (\tilde{J}A)^{\dagger} = -\tilde{J}A^{\dagger}$$

$$\tilde{K}^{\dagger}U^{-1} = U^{T}K^{\dagger}U$$

 $-\kappa = 0^{-1} \text{ k}^{\dagger} \text{ U}$

e)
$$A = A^{\dagger}$$
, $\beta = \beta^{\dagger}$

$$A\beta = (A\beta)^{\dagger} = \beta^{\dagger}A^{\dagger} = \beta A$$

$$S_{1} y SOLO S_{1} AB = \beta A$$

QUEDA O.

9)
$$I+S=A$$

$$(2-A) \cdot A^{-1} = R = 2A^{-1} - I$$

$$\frac{R+I}{2} = A$$

$$INN(\frac{R+I}{2}) - I = S = \begin{bmatrix} O & -tgO \\ tgO & O \end{bmatrix}$$
EVANUE AVERA DO SYACHE.

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