M + V person see unitarios (M = (0, 0, 1))
=> $-10^2 + 6^2 = 1$

=> 0² + 6² = 1 Si enelinos a= ± (500, 10 = ± Sout

=> (± (20) + (± 5mB) = (200 + 50m²0

=> poemos eucir a= ± coo, b= ± Suno

6) Se M= (0 6), M= (0,6)

tono at 1 son experionates (0+0)

MATRICES ORICHONALS.

c= + to == - to

c) IT See was sometion wardings R= (Coop - Sime)

es entrevre ave vos veciones un= (coo, sme) y v= (-sme, cool) son unitacios y oppocondues.

Do uma lotation es optoboual.

=> d(M)= +7

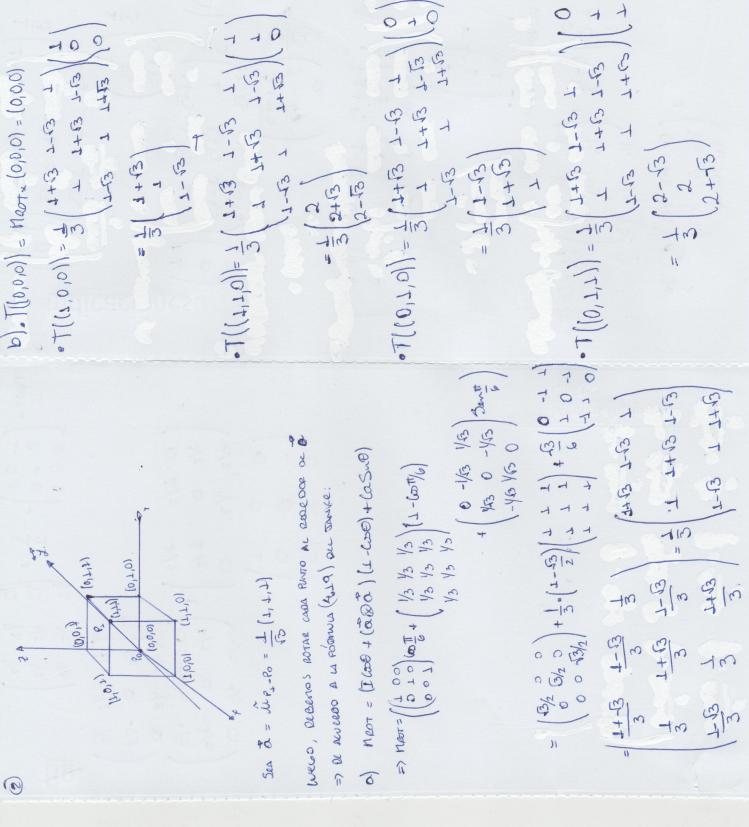
=> d(A) =1

2. LAS REFLEXIONES SOBLE X E Y VIENEU DABLAS FOR! $H_{L} = \begin{pmatrix} 1 & 0 \\ 0 & 1 \end{pmatrix}$, $H_{2} = \begin{pmatrix} 1 & 0 \\ 0 & 1 \end{pmatrix}$; matrices evigenteneute optoeovales.

SO WIT PEFEXION ES DETOFONA.

3.-
$$\chi_{L} A = (LDB - John B)^{-1} H_{2} = [1 \ 0]^{-1} H_{2} = [-1 \ 0]^{-1} H_{2} = [$$

d) yo are wrated es opposite at $AA^{T} = T$ $= 2 d(AA^{T}) = T$ $= 3 d(A) d(A^{T}) = d(T)$ = 3 d(A) - d(A) = 1



(B+T T 54-T)

5-1 5-1-13 1-13

$$\begin{array}{c} \neg T [[D_{r}, O_{r}, J_{r}]] = \frac{1}{3} \left(\frac{1}{4+3} \cdot \frac{1}{4+3} \cdot \frac{1}{4+3} \right) \left(\frac{1}{2} \right) \\ \neg T [[D_{r}, O_{r}, J_{r}]] = \frac{1}{3} \left(\frac{1}{4+3} \cdot \frac{1}{4+3} \right) \left(\frac{1}{2} \right) \\ \rightarrow T [D_{r}, O_{r}, J_{r}] = \frac{1}{3} \left(\frac{1}{4+3} \cdot \frac{1}{4+3} \right) \left(\frac{1}{2} \right) \\ \rightarrow T [D_{r}, O_{r}, J_{r}] = \frac{1}{3} \left(\frac{1}{4+3} \cdot \frac{1}{4+3} \right) \left(\frac{1}{4} \right) \\ \rightarrow T [D_{r}, J_{r}, J_{r}] = \frac{1}{3} \left(\frac{1}{4+3} \cdot \frac{1}{4+3} \cdot \frac{1}{4+3} \right) \left(\frac{1}{4} \right) \\ \rightarrow T [D_{r}, J_{r}, J_{r}] = \frac{1}{3} \left(\frac{1}{4+3} \cdot \frac{1}{4+3} \cdot \frac{1}{4+3} \right) \left(\frac{1}{4} \right) \\ \rightarrow T [D_{r}, J_{r}, J_{r}] = \frac{1}{3} \left(\frac{1}{4+3} \cdot \frac{1}{4+3} \cdot \frac{1}{4+3} \right) \left(\frac{1}{4} \right) \\ \rightarrow T [D_{r}, J_{r}, J_{r}] = \frac{1}{3} \left(\frac{1}{4+3} \cdot \frac{1}{4+3} \cdot \frac{1}{4+3} \right) \left(\frac{1}{4} \right) \\ \rightarrow T [D_{r}, J_{r}, J_{r}] = \frac{1}{3} \left(\frac{1}{4+3} \cdot \frac{1}{4+3} \cdot \frac{1}{4+3} \right) \left(\frac{1}{4} \right) \\ \rightarrow T [D_{r}, J_{r}, J_{r}] = \frac{1}{3} \left(\frac{1}{4+3} \cdot \frac{1}{4+3} \cdot \frac{1}{4+3} \right) \left(\frac{1}{4} \right) \\ \rightarrow T [D_{r}, J_{r}, J_{r}] = \frac{1}{3} \left(\frac{1}{4+3} \cdot \frac{1}{4+3} \cdot \frac{1}{4+3} \right) \left(\frac{1}{4} \right) \\ \rightarrow T [D_{r}, J_{r}, J_{r}] = \frac{1}{3} \left(\frac{1}{4+3} \cdot \frac{1}{4+3} \cdot \frac{1}{4+3} \right) \left(\frac{1}{4} \right) \\ \rightarrow T [D_{r}, J_{r}, J_{r}] = \frac{1}{3} \left(\frac{1}{4+3} \cdot \frac{1}{4+3} \cdot \frac{1}{4+3} \right) \left(\frac{1}{4} \right) \\ \rightarrow T [D_{r}, J_{r}, J_{r}] = \frac{1}{3} \left(\frac{1}{4+3} \cdot \frac{1}{4+3} \cdot \frac{1}{4+3} \right) \left(\frac{1}{4} \right) \\ \rightarrow T [D_{r}, J_{r}, J_{r}] = \frac{1}{3} \left(\frac{1}{4+3} \cdot \frac{1}{4+3} \cdot \frac{1}{4+3} \right) \left(\frac{1}{4} \right) \\ \rightarrow T [D_{r}, J_{r}, J_{r}] = \frac{1}{3} \left(\frac{1}{4+3} \cdot \frac{1}{4+3} \cdot \frac{1}{4+3} \right) \left(\frac{1}{4} \right) \\ \rightarrow T [D_{r}, J_{r}, J_{r}] = \frac{1}{3} \left(\frac{1}{4+3} \cdot \frac{1}{4+3} \cdot \frac{1}{4+3} \right) \\ \rightarrow T [D_{r}, J_{r}, J_{r}] = \frac{1}{3} \left(\frac{1}{4+3} \cdot \frac{1}{4+3} \cdot \frac{1}{4+3} \right) \\ \rightarrow T [D_{r}, J_{r}, J_{r}] = \frac{1}{3} \left(\frac{1}{4+3} \cdot \frac{1}{4+3} \cdot \frac{1}{4+3} \right) \\ \rightarrow T [D_{r}, J_{r}, J_{r}] = \frac{1}{3} \left(\frac{1}{4+3} \cdot \frac{1}{4+3} \cdot \frac{1}{4+3} \right) \\ \rightarrow T [D_{r}, J_{r}, J_{r}] = \frac{1}{3} \left(\frac{1}{4+3} \cdot \frac{1}{4+3} \cdot \frac{1}{4+3} \right) \\ \rightarrow T [D_{r}, J_{r}, J_{r}] = \frac{1}{3} \left(\frac{1}{4+3} \cdot \frac{1}{4+3} \cdot \frac{1}{4+3} \cdot \frac{1}{4+3} \right) \\ \rightarrow T [D_{r}, J_{r}, J_{r}] = \frac{1}{3} \left(\frac{1}{4+3} \cdot \frac{1}{4+3} \cdot \frac{1}{$$

LA MATER OR HOTACIÓN VIENE DADA POR:

+ (0 - K3 /A3) Sen 24 - 1/5 0 - 1/43 Sen 24 - 1/5 4/5 0

$$= \begin{pmatrix} 0 & 1/2 & 1/2 \\ 1/2 & 0$$