3.9)
$$(A, B)_{w} = tr(A^{T}wB)$$
, $w = \begin{bmatrix} 1 & i \\ i & z \end{bmatrix}$
3) Anuelso los axiomas de Pt:
1) $(x+y,z) = tr((x+y)^{T},w,z) = tr((x^{T}+y^{T})wz)$
 $\Rightarrow = tr(x^{T}wz) + tr(y^{T}wz) = (x,z) + (y,z)$
2) $(\lambda x, y) = tr((\lambda x)^{T}w.y) = tr((\lambda x^{T}.w.y) = \lambda tr(x^{T}.w.y) = \lambda (x,y)^{T}$

$$(3) (x_1y) = tr(x^Tw x) = tr(x^Tw x) = (x_1 x_2)^T [x_1 x_2]$$

$$\Rightarrow = tr(x^Tw x) = t$$

Cumple toda los axiomos -> degime un fi en 19 2x2 /

S= (2) mid

Busco base ontogramal des, B= {w1, w2}

$$\omega_{S} = \begin{bmatrix} 1 & 0 \\ 1 & 1 \end{bmatrix} - (\begin{bmatrix} 1 & 0 \\ 1 & 1 \end{bmatrix}) - (\begin{bmatrix} 1 & 1 \\ 0 & 1 \end{bmatrix})$$

$$||[0, 1]||_{S}$$

Uso PI dado:

$$(vz,vi) = tr(vz^Tw.vi) = tr([i i][i i][i i])$$

IN YWI, WCY

Pen lo territo;

Emtonces la bose basada es B= {w1, wz}= {[:], [:/6-5/5]}

S= $\left\{ v \in V_{i}^{cxc} : a+2b+c+3d=0 \land ca+6+3c+2d=0 \right\}$ Consider almost simple $\left\{ v \in V_{i}^{cxc} : a+2b+c+3d=0 \land ca+6+3c+2d=0 \right\}$ Con $\left\{ v \in V_{i}^{cxc} : a+2b+c+3d=0 \land ca+6+3c+2d=0 \right\}$ Con $\left\{ v \in V_{i}^{cxc} : a+2b+c+3d=0 \land a+2d=0 \right\}$ Con $\left\{ v \in V_{i}^{cxc} : a+2b+c+3d=0 \right\}$ Con $\left\{ v \in V_{i}^{cxc} : a+2b+c+3d=0$

B= {[-5/3 /3], [-1/3 -4/3]}

Ec.: 9+3-28-0=5 Q-5B+X-40=1 23 + 2 = -3 S=0+B+b $\begin{pmatrix} 1 & 1/6 & -\frac{7}{3} & -\frac{1}{3} & 2 \\ 0 & 1 & -2 & 1 & 1 \\ 0 & 1 & 0 & -3 & F3 + F2 - F3 \end{pmatrix}$ 0 -5/3 -1/3 0 0 -3 1 2 F4-> F1-F4 $\begin{pmatrix}
1 & 1/6 & -5/3 & -1/3 & 2 \\
0 & 1 & -2 & 1 & 1 \\
0 & 0 & -3 & 1 & 4 \\
0 & 0 & 0 & 17/3 & 20/3
\end{pmatrix}$ 1/6 -5/3 -1/3 5- 1 -5/3 -4/3 0 /F47 5F3 - 3F4 $-3\left(04 + \frac{3}{8} - \frac{5}{5} - \frac{3}{6} - \frac{3}{$ B-28+0=1-) 80-5013=1+2. (-16)-20-13=-35 $-38+0=4 \rightarrow 8=(4-\frac{20}{17})\cdot\frac{1}{3}\rightarrow 8=\frac{-16}{51}=\frac{28}{17}$ 170= 20 > 1,0= 20 $\begin{bmatrix} 2 & 1 \end{bmatrix} = \frac{7}{6} \begin{bmatrix} 1 & 1 \end{bmatrix} - \frac{35}{17} \begin{bmatrix} 1/6 - 5/6 \end{bmatrix} - \frac{16}{17} \begin{bmatrix} -5/3 & 1/3 \end{bmatrix} + \frac{20}{17} \begin{bmatrix} -1/3 & -4/3 \end{bmatrix}$