```
3'S) (x'A) = (xini+xens ' hiri + hens)
      Pon Prop: (x+y, z)= (x,z)+(y,z)
    (x,y) = (x101, y101+y202) + (x202, y101+y202)
      for MoP: (\lambda x, y) = \lambda (x, y)
    (x,y) = X1 (n1, Air1+Asns)+ X5 (n5, Air1+ Asns)
     Pen Prop : (x,y) = \overline{(y,x)}
    (x,y)= x1. (y1v1+yzv2, v1)+ x2. (y1v1+yzv2, v2)
     Pen prop. (x+y, z) = (x,z) + (y,z)
   (x,y)= x1. [(y101, 01)+(y202, 01)] + x2. [(y101,02)+(y202, 02)]
    Por prop de complejos:
   (x,y)= x1. [(y,v,v) + (yzvz,v)] + x2. [(y,v,vz) + (yzvz, vz)]
   Pen Prop: (xx,y) = \(x,y)
 (x,y)= x1. [y1(v1,v1) + y2(v2,v1)] + x2. [y1(v1,v2) + y2(v2,v2)]
 (x,y)= X1.[y1.(v1,v1)+yz(v2,v1)]+ x2.[y1.(v1,v2)+yz.(v2,v2)]
  for prop: (x,y) = (y,x)
(x,y)= x1.[y1.(v1,v1)+y2.(v1,v2)]+x2.[y1(v2,v1)+y2(v2,v2)]
(27,50) 582x + (10,50) 182x + (20110) 281X + (10,10) 181X = (6,x)
```

Lo que quería elemostrar

b) Pontiemdo de:

) tontiemdo de:

$$(x,y) = x | y_1(y_1,y_1) + x | y_2(y_1,y_2) + x | y_1(y_2,y_1) + x | y_2(y_2,y_2)$$

$$-3(x,y)=[x_1 x_2] \cdot \left[y_1 \cdot (y_1,y_1) + y_2 \cdot ((y_2,y_2)) \right]$$

$$- > (x_1y) = [x_1 x_2] [x_1 x_2] [x_1 x_2] [x_2 x_1 x_2] [x_1 x_2]$$

le que quenía demostran

De Bonma amaloga re llega a los omas igueldades

$$\rightarrow \left[xJ_{B} = \begin{bmatrix} x_{1} \\ x_{2} \end{bmatrix}, \begin{bmatrix} yJ_{B} = \begin{bmatrix} y_{1} \\ y_{2} \end{bmatrix} \right]$$

$$\rightarrow (x,y) = \left[xJ_{B}\right] G_{B} \left[yJ_{B}\right]$$

4 como en 6) mos quedo:

$$(x,y) = [x_1 x_2] \left[y(v_1,v_1) (v_1,v_2) \right] \left[\frac{y_1}{y_2} \right]$$
Esta es la

d) Como GB =
$$[(\Omega_1, \Omega_1) (\Omega_1, \Omega_2)]$$
 y GB* = $\underline{GB_L}$

$$\widehat{GB^{T}} = \left[\begin{array}{c} (\overline{D_{1}, v_{1}}) & (\overline{D_{2}, v_{2}}) \\ (\overline{D_{1}, v_{2}}) & (\overline{D_{2}, v_{2}}) \end{array} \right] \quad \text{eque} \quad \text{pon pnop: } (x, y) = (y, x)$$

Athona pruebo det (Go) >0

Pon de Nigualdad de Cauchy-Schwarz

Querdisch gere 40

Ron la tomra det(GB) >0 V

program