4.11 Suberpair de My: -> F = ((1,0,11.0), (0,2,1.0)> -> G = { (x,g, z, t); x-z=g=0 }. Trobor dinemions, bases i equacions implicates dels subespois F. G. FAG i F+G. F: dimensió => dim(F)=2. bak=> (1,0,1,0), (0,2,1,0) son linealment independents i generadors. base= {(1,0,1,0), (0,2,1,0)}.  $\begin{pmatrix} 1 & 0 & 1 & 0 \\ 0 & 2 & 1 & 0 \\ x & y & \frac{1}{2} & t \end{pmatrix} \xrightarrow{(-x)} \begin{pmatrix} 1 & 0 & 1 & 0 \\ 6 & 2 & 1 & 0 \\ 0 & y & \frac{1}{2} - x & t \end{pmatrix} \xrightarrow{-x} \begin{pmatrix} 1 & 0 & 1 & 0 \\ 0 & 2 & 1 & 0 \\ 0 & 0 & 2x+y-2 & 2t \end{pmatrix} \xrightarrow{(-2)}$  $(1/2) \begin{pmatrix} 1 & 0 & 1 & 0 \\ 0 & 2 & 1 & 0 \\ 0 & 0 & x+y-z & t \\ \hline \frac{7}{2} & & \\ & & & \\ \end{pmatrix}$  =>  $F = \begin{cases} x+y-z=0 \\ t=0 \\ \end{cases}$ G: equations: G= { x-2=0 y=0 bax: agofeur zit com avaiable llives: => base = { (1,0,1,0), (0,0,0,1)} ineuris: din (6=2. F+6: generadors de F+6= 2 (1,0,1,0), (0,2,1,0), (1,0,1,0), (0,0,0,1)> dimensió: dim (F+G)=3. equacions: ax+by+cz+d+=0 => Si agosfer c=1 com a variable llivre: (-1, -1/2, 1,0) equaid: -x - 1 y + 2 = 0 FN 6: dimensió: (Graymann): dim (F) + dim (6) = dim (F+6) + dim (FN6) => dim (FN6)=1.  $\begin{cases} x-2 = 0 \\ y = 0 \Rightarrow \text{ equation: } f(G): \begin{cases} x-2=0 \\ y=0 \end{cases} \\ t=0 \end{cases}$ 

base: agalan com a variable == 1. {(1,0,1,0)} => base de F n 6.