Addition
$$a+b=\begin{bmatrix} a_x\\ d_y \end{bmatrix}+\begin{bmatrix} b_x\\ b_y \end{bmatrix}=\begin{bmatrix} a_x+b_x\\ a_y+b_y \end{bmatrix}$$

$$a = \begin{bmatrix} a_x \\ a_y \end{bmatrix} = a_x \begin{bmatrix} 0 \\ 0 \end{bmatrix} + a_y \begin{bmatrix} 0 \\ 1 \end{bmatrix}$$

$$e_1$$

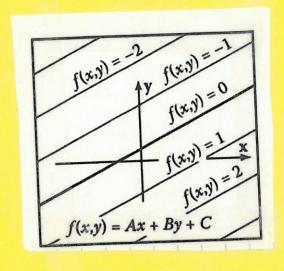
Lines > Std form Ax+By+C=0 Slope int Y= mx+6 Giren 2 points P, & What is line through p, & form I vector to pg $g = (g_{x}, g_{y})$ $P = (g_{x}, g_{y})$ Px-6x

0x-Px f(xin) = Ax+By+C 7 f(x,y) = [A,B] (PY-9Y) x + (gx-Px) y + C = 0 plug in p and solve for c

C=Px8y-8xPy

Cines 9-2+18+1 mil the + 1+xm=Y - 101 31012 graph toward of a follow of graph of some g d mon I mad AND STATE OF THE S D+ 8+ A= (x,x)} [8, A] = (xx) ? 0=0+(4-4)+(4-4)) gly in p and color late to - Parish 1

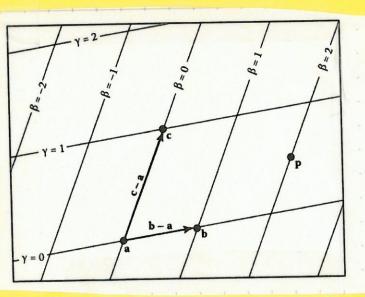
Line through P28 has formula (Px-9y)x+ (8x-Px)y+ Px8y-8xPy=0 Line Hough 125 the Genoula 0=[1+8-18x]+x(1-1) Barycentric coordinates f(x,y) = Ax + by + C



$$p = a + \beta (b-a) + \delta (c-a)$$
 =

 $p = (1-\beta-\gamma)a + \beta b + \delta c$
 $def 2 = 1-\beta-\gamma$
 $p = da + \beta b + \delta c$

Barycentic coordinate of P y Dabc is (4, B, T)



Baryanthic coardinates 0+12+2A=(+x).3 (2-3) Yo + (2-3) A + 2 = 9 p= (1-6-1), + pt+1/c 7. - 4. - 1 = 6 - 7.96 36.184 + 1.6 = 9 9 de ductions s'histipuil 15 (1 p) 3