· Part (2) 9/10/04

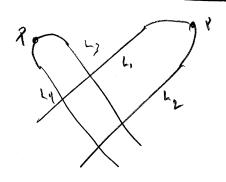
beamed i'c

- 1 Two distinct points lie on a unique line
- 3 Two distinct lines intersect at a unique point.

Euclidenn plane: A2.

PR// L.

" Ore point compatition " .-



 $P, Q \in L_3$ $P, Q \in L_1$

(write love to sind)

A service of title of the

PROTECUNE POINT: either a point in the plane DR a "direction"

(directed graph)

 $P^2 = A^2 \cup \{ \text{directions in } A^2 \}$

A francisco de la companya della companya della companya de la companya della com

book says this is = 170'.

live though origin.

A pair of opp.

points on unit

Ay = Bx

[4, B] that's where the IP come in.

=) set of points in a planar line U { the direction } of that line }

$$A_{x} + B_{y} + C = 0$$

(Vertical transfer in of the second

il well and

Ax + By = 0

Direction =) [A, B]

La = { all points at >> }.

(xyy), (z,w) E A²

=) planar line
through it.

This (x,y) \Rightarrow

20, , 22

below. I want to be

garage and a second

And the wife of Chi

$$[a_{1},c]$$

$$If c \neq 0, then \sim [a, b, 1] = [x, y, 1].$$

$$If c = 0 + ha = [A, B, 0]$$

$$(x, y) \in A^{2}$$

$$(X,Y) \in A^{2$$

at least one of of B +0.

Tais, c] EL, c=10 than this cycle [i, i, 4]

Which is an Heline XX+ BY+8=0.

$$-) \left[a_1 L, o \right] \in L \Rightarrow = \left[-\beta, \lambda, o \right] \\ -p Y = \lambda X$$