Ch-Pain of straight lines

1) Slope of a line

HAB = MBC = MAC

/B(x2, y2)

A(2,, y,)

$$m_{AB} = \frac{y_2 - y_1}{x_2 - x_1}$$

If m, and me are slopes of two intersecting lines the

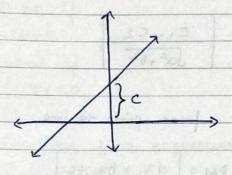
* Different forms of Eqn:-

1) Slope point form:-
$$(y-y_1) = m(x-x_1)$$

2) Two point form :-

$$\frac{y-y_1}{y_1-y_2} = \frac{\varkappa-\varkappa_1}{\varkappa_1-\varkappa_2}$$

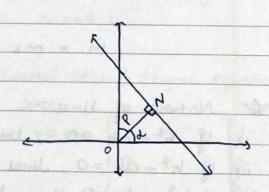
3) 5 lope intercept form:



y=m2 if line passes through origin

Double intercept form:- $\frac{x}{2} = \frac{y}{2} = 1$

(5) Normal Jorm 2005 a + y sin a = p



* Creneral form

$$m = -\frac{q}{h}$$

* if For parallel dines: ax + by + C1 = 0

ax + by + (2 = 0

ii4 For perpendicular lines: ax + by + c1 = 0

bx + ay + (2=0

