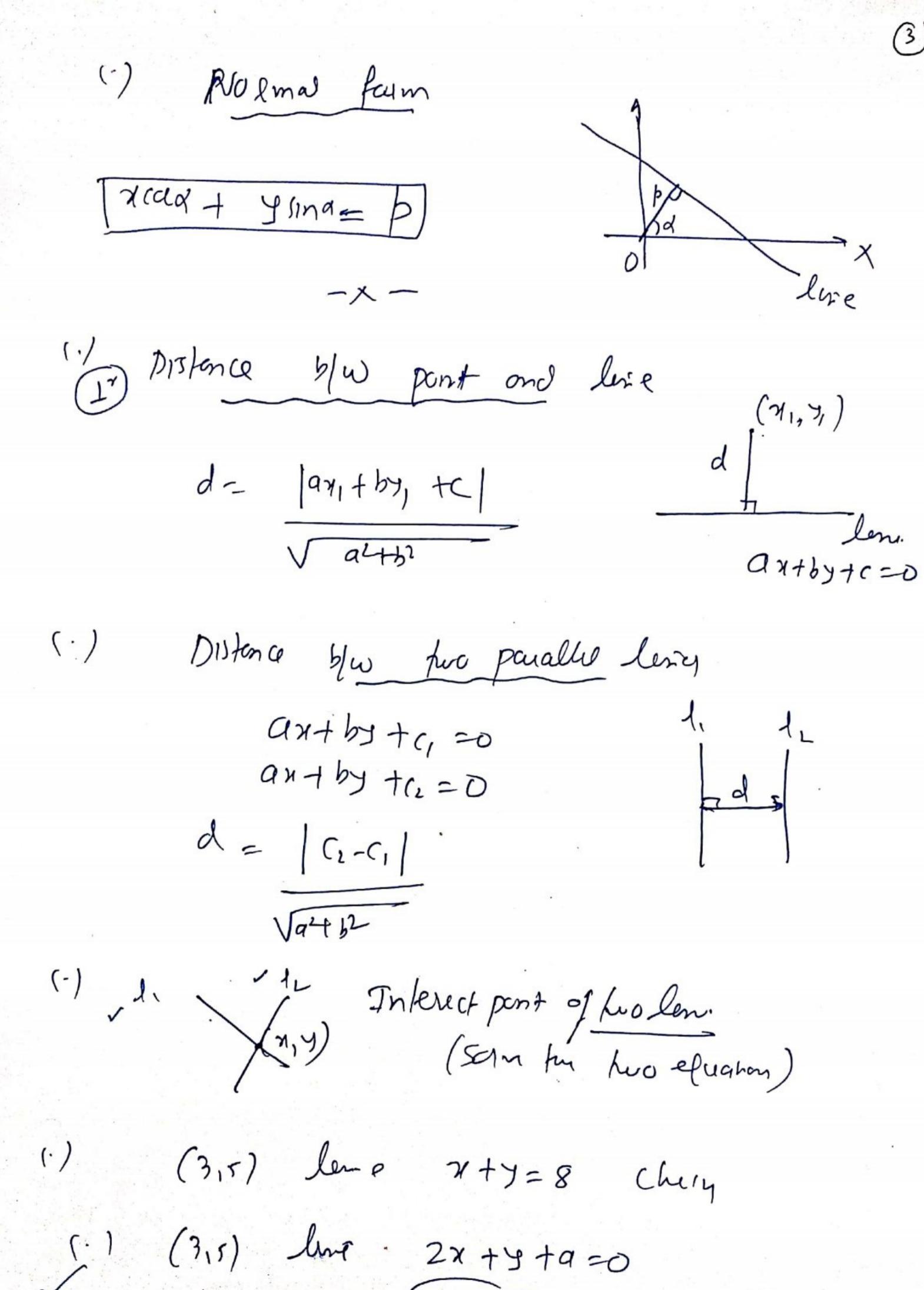
() Using slipy = collingary of term prints A(), B(), c() Blist AB= Slipey BC ABH B(But pant B is common Different faymy equating line (') Pant - slope farm 1 y-y,= m (21-21) () Two point farm $y-y_1 = \frac{y_2-y_1}{y_2-y_1}(\gamma_2-\gamma_1)$ Intercept farms 五十岁=1 eg X-Int= 2 pontante lone (2,0)

(1) Slope- Intercept form

L (71-Int)

Y=mx+c C - Y-int

2 y = x + 3 7 = 7/2 m=1/2



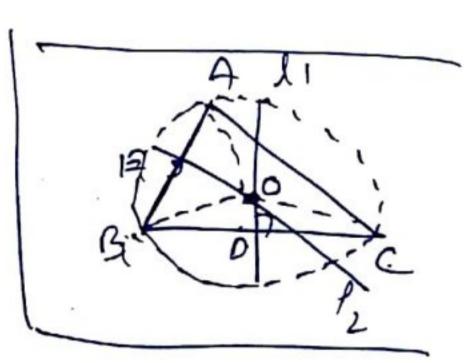
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(1) grun line antby+ (=0

ony line poually to it => ax+by +1=0

(i) |-2| = 2 $|x^2| = x^2$ $|x|^2 = x^2$ |a|(b) = |ab| $|a^2 + b^2| = a^2 + b^2$ |-a| = |a| - |-a-b| = |a+b|

(Y-X-4)



(1) Lot Locus - is a pate traced by

the plany point under some

Then concline

1. / orthocenty = Int. point of allithedry

() Contrard - Machine Med

Equilate / Islac.

Mid = calkly = 1 bisection of Siderment in De 1 bisection

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 $= \frac{\sqrt{3n^2+1}}{27} = \frac{\sqrt{3n^2+1}}{27} = \frac{\sqrt{3n^2+1}}{27} = \frac{\sqrt{3n^2+1}}{27} = \frac{25m^2+50m+25}{27}$

= |m+11

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- 24m2-50m + 24 20

-1 12m2-25m +12=0

12m2-16m-9m +12=0

4m (3m-4) -3(3m-4) 20

= (m= 4/3) (m= 3/4)

:- Yah of long

7m -y -2(3)+m3=0

ラスーリー2(3)+3=0

0 m-2 + In what direction should a live by digwn through the point (1,2) so that ets. point of Intersection with the line 1+4=4 is at a distance of

Ja Frantu given pant

B. (x, 4-x)

let penir Big (4,4-4) dutance AB= V6

J(7-1)2+(Q-4)2= 56

272 - 13 + = 2/3

6×2-182× trest=2

(2) quadrahing

Or3 + Hip is the length of perpendicular from the F Origin on the line 2 + 7 = 1 and a2, b2, b2 are in AP, then show that a4+b4=0

Som bis : bix +ay -ab=0

Sim b= 1000-ab 1

(01.9) A 7 + 3 = 1

 $\frac{b^{2} = \frac{a^{2}b^{2}}{b^{2}+a^{2}}}{b^{2}+a^{2}}$ Sim a^{2} , b^{2} , b^{2} an in AP

 $\frac{3}{3}b^{2} = a^{2} + b^{2}$

 $\frac{a^2b^2}{b^2+q^2} = a^2+b^2$

= 29262= (a2+62)2

= 202 b2 - 04+14+29252

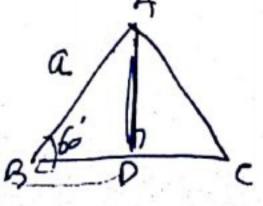
- [d4+34=0] pund

Ory-+ of the equation of the base of an equilated triongle is uty=2 and the vertex is (2,-1). Find the

lengting Side of trongle.

Sell

a/2017 C 2/17-2=0



DN-5 + one diagonal of a square a along 84-154=0 and one of its vertex is (1,2). Then find the Gration of Broles of the Square passing through this vater.

Solution

$$m = -7/23$$