$$\frac{n-1}{1-5} = \frac{4-5}{5-4}$$

$$\Rightarrow \frac{n-1}{-A} = \frac{4-5}{4}$$

$$\Rightarrow x-1+y+5=0$$

$$\Rightarrow x+y=6$$

$$\Rightarrow x+y=6$$

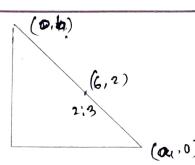
क्ष्यां क्ष्यां क्ष्यां भ्रमीकव्र ,

$$\frac{n-2y}{8} = 0.1$$

$$n-2y = 8$$

$$n-2y = 8$$

2



$$6 = \frac{2 \times 0 + 3 \times 0}{5}$$

$$2 \times 0 + 3 \times 0$$

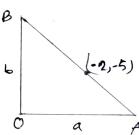
$$5 = \frac{2 \times 0 + 3 \times 0}{5}$$

Again,
$$2 = \frac{2 \times b + 3 \times 0}{5}$$

$$b = 5$$

· मिलंग अभीक्यते य + म = L

3



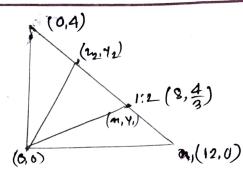
We know,
$$\frac{2a}{a} + \frac{7}{b} = 01$$

$$\frac{-2}{a} + \frac{-5}{b} = 1$$

$$\alpha = -2b$$

$$=\frac{-x}{-2b} + \frac{-5}{b} = 1$$

$$\Rightarrow \frac{1-5}{b} = 1$$



$$n+3y-12=0$$

$$\frac{21}{12} + \frac{4}{4} = 1$$

$$\therefore n_1 = \frac{1 \times 0 + 2 \times 12}{3}$$

$$Y_1 = \frac{1x4 + 2x0}{3}$$

$$y_1 = \frac{4}{3}$$

$$\lambda_2 = \frac{8+0}{2} = 4 (x \delta) (x \delta)$$

$$\mathcal{J}_{\perp} = \frac{4/3+4}{8}$$

$$\Rightarrow \frac{4+12}{3} \times \frac{1}{2}$$

-- भ भा भवं आवं आठ भमीकंट्रेंगे,

$$\frac{n-8}{800} = \frac{4}{3}$$

$$\frac{2}{90-8} = \frac{4-0}{9-4}$$

$$\Rightarrow \frac{4n}{3} = 84$$

Again,
$$\frac{n-0}{0-4} = \frac{4-0}{0-\frac{8}{3}}$$

$$\Rightarrow \frac{8n}{3} = 4y$$

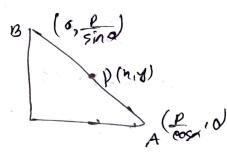
$$3$$
 3
 $8n - 12y = 0$
 9
 $2n - 3y = 0$
(Ax)

2 विकामारी खिला भनीका)

$$\frac{21-1}{1-3} = \frac{4-2}{2-4}$$

$$=\frac{\chi-1}{-2}=\frac{\gamma-2}{-2}$$

6



meosat ysind = p

$$\frac{n}{p} + \frac{y}{p} = 1$$

$$D = \frac{P}{\cos x + 0}$$

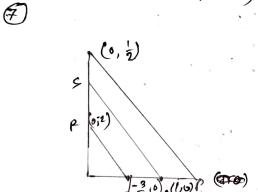
$$\frac{1}{4} \cos^2 \alpha = \frac{p^2}{4n^2} - \alpha$$

$$\gamma = \frac{\frac{P}{\sin \alpha + 0}}{2}$$

$$=\frac{p}{\sin \alpha}$$

$$1 = \frac{py + pn}{4ny L}$$

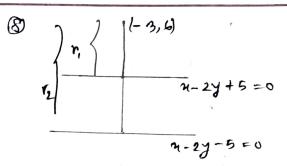
$$4\pi y^{r} = p^{r}(n+y)^{r}$$
(showed)



$$\begin{array}{c} PR \implies 4n + 3j + 6 = 0 \\ \frac{n}{-63} + \frac{7}{-2} = 1 \\ \frac{n}{-2} + \frac{7}{-2} = 0 \\ \Rightarrow \frac{n}{-3} + \frac{7}{-2} = 0 \end{array}$$

QS =
$$m + 2y - 1 = 0$$

 $\frac{m}{1} + \frac{y}{2} = 1$



$$r_{1} = \frac{|x-2y+5|}{|y_{5}|} = \frac{|-3-12+5|}{|y_{5}|}$$

$$= \frac{|10|}{|\sqrt{5}|}$$

$$= \frac{|-3-12-5|}{|\sqrt{5}|}$$

$$= \frac{|20|}{|\sqrt{5}|}$$

we know,

$$n \in 0.545 + 4 \sin 45 = p$$
 mbatto,
 $n = \frac{1}{\sqrt{2}} + 4 = \frac{1}{\sqrt{2}} = p$ $\frac{1}{\sqrt{2}} \times 62px + 2p = 8$
 $\frac{n}{\sqrt{2}p} + \frac{4}{\sqrt{2}p} = 1$ $p = 2\sqrt{2}$

from
$$0$$

$$\frac{x}{\sqrt{2}} + \frac{y}{\sqrt{2}} = 2\sqrt{2}$$

$$x + y = 4 \quad (Any)$$

$$\frac{\cos\alpha}{a} \pm \frac{\sin\alpha}{b} = \frac{p}{e}$$

from 1st ard tenm,

$$\cos x = \frac{ap}{c}$$

$$\cos x = \frac{ap}{c} - 0$$

from 2nd 32 tenm

$$\sin a = \frac{bp}{c^{2}} - 0$$

$$D + D = \frac{P'(a^{t}+b^{t})}{c L}$$

$$M = \frac{-7+0}{2} = \frac{-7}{1}$$

$$\begin{array}{c|cccc} \frac{1}{2} & \frac{b}{m} & b & 1 \\ \hline b & m_1 & b & 1 \\ \hline 0 & 0 & 1 \\ \hline \end{array}$$

$$\frac{1}{2} \begin{vmatrix} \frac{b}{m} - \frac{b}{m}, & \frac{b-b}{0} \\ \frac{b}{m} - 0 & \frac{b-0}{0} \end{vmatrix}$$

$$\Rightarrow \frac{1}{2} \left| \frac{b}{m} - \frac{b}{m_1} \right|$$

$$\Rightarrow \frac{1}{2} \frac{1}{m} - \frac{1}{m}$$

(13)
$$n = a - 0$$
 $y = b - 0$
 $y = my - 0$
 (a, ma)
 (a, ma)

$$\frac{1}{2} \begin{vmatrix} \frac{b}{m}, b \\ a & ma \\ a & b \end{vmatrix}$$

$$\frac{1}{2} \begin{vmatrix} \frac{b}{m} - \alpha & b - m\alpha & 0 \\ \alpha - \alpha & m\alpha - b & 0 \\ \alpha & b & 1 \end{vmatrix}$$

$$\frac{1}{2} \left[\frac{b-ma}{m} \left(ma-b \right) \right]$$

$$4n + 3y = 6$$

 $n - 2y = 7$
 $(n,y) = (3,-2)$

$$\frac{y_{1}-0}{y_{1}-0} \times \frac{y_{1}-0}{y_{2}-0} = -1$$

$$\frac{y_{1}y_{2}}{y_{1}y_{2}-y_{1}b} = -1$$

$$\frac{1}{2} \frac{1}{4} \frac{1}$$

A
$$(3,3)$$
 $D = (2,0)$ $D = (2,0)$ AB $(3,0)$ $D = (2,0)$ $D = (2,0)$

$$\frac{n-8}{8+4} = \frac{4-3}{3+3}$$

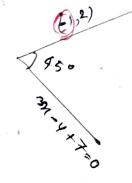
$$\Rightarrow n-8 = 4-3$$

$$\frac{n-8}{8+4} = \frac{y-3}{3+3}$$

$$\Rightarrow \frac{n-8}{12} = \frac{y-3}{12}$$

$$\Rightarrow n-8-2y+6 = 0$$

$$\Rightarrow n-2y=2$$
Ans)



$$y-2=m(n+1)$$

$$m_1=m$$

$$4 = 3n + 7$$

$$m_2 = 3 - 9$$

$$ton0 = \frac{+m_1 - m_2}{1 + m_1 m_L}$$

$$1 \Rightarrow \pm \frac{m-9}{1+3m}$$

$$(1+3m) = \pm (m-9)$$

$$\Rightarrow 2m = -4$$

$$m = -2$$

$$4m = 2$$

$$m=\frac{1}{2}$$

$$y-2 \neq -2(n+1)$$

 $\Rightarrow y-2+2y+2=0$
 $\Rightarrow 2y+y=0$

Again,
$$M = \frac{1}{2}$$

$$4 (4 + 2) = \frac{1}{2} (n+1)$$

$$2y + 4 = n+1$$

$$m_1 \times m_2 = -2 \times \frac{1}{2} = -1$$
= (proved)

Again,
$$Y-2 = \frac{1}{2}(n+1)$$

$$-2x\frac{1}{2} = -1$$
(Proced)

18)

DN-47+5=0-Q

60)

P 4x-y-1=0-0 2x-y+1=0-0

(1) नव उव लम् (व्याव यमीक्वम. 47-1) विक्यामी, 1 2+K=0

(2,-1) TATEITH, A-3+K=0 K=-5

.'. An +3y-5 =0

ं श्राप्तिकत् श्राप्त = (ई। है)

(19)

from @ @ (n,y) = (1,3)

AP (AMA NATIONAL),

n+2y+k=0

(1,3) RASIMI, 1+6+K=0 K=-7

: 21+2y-7=0 (Ary)

2n+34=0_0

04+ by+1=0_AD

0/314) 4-9: m(21-3)

√2 €0°°°°

from (2 ((n, y) = (-6,9)

0 79 (-6,4) Pays 117,
-60+40+1=0
60-96=1 Any

 $+an0=\frac{m_1-m_1}{1+m_1m_2}$

 $\sqrt{3} = \pm \frac{m-1}{1+m}$ (+) $6\pi v$, $\sqrt{3} + 13m = m-1$ $\sqrt{3} + 1 = m(1-\sqrt{3})$ $m = \frac{1+\sqrt{3}}{1-\sqrt{3}}$



m-1945 = 0 -0

D यह येथे अर्थ अंगों अभिक्षिप ' 4n+3y+k=0 (2,-1) Tanklind, 8-3+K=0

(19)

Ap (अभव भमीकवन) n+2y+K=0 (1,3) FASIMI, 1+6+K=0 K=-7

antley+1=0_ (1)

from () (2 () (1, y) = (-6,9)

$$\sqrt{3} = \pm \frac{m-1}{1+m}$$

$$\sqrt{3} + 13m = m-1$$

$$\sqrt{3} + 1 = m(1-\sqrt{3})$$

$$m = \frac{1+\sqrt{3}}{1-\sqrt{3}}$$

$$m(13+1) = 1-13$$

$$m = \frac{1-\sqrt{3}}{1+\sqrt{3}}$$

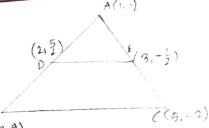
$$Y-4=\frac{1+63}{1-\sqrt{3}}(Y-3)$$

(22)

we know

$$a = 5t4 = 9,1$$

ं श्रमीयक्र,



0(3.9)

$$\frac{71-2}{2-3} = \frac{4-\frac{5}{2}}{\frac{5}{2}+\frac{1}{2}}$$

$$\frac{n-2}{-1} = \frac{24-5}{6}$$

De 70 GA =
$$\frac{5-4}{1-3} = \frac{4+2}{3-5} = -3$$

DE 30
$$4m = \frac{5/2 + \frac{1}{2}}{2 - 3}$$

$$=\frac{6/2}{-1}=-3$$

(24)
$$\pi = \pm \frac{3\pi \cos 0 + 57\sin 0 - 15}{\sqrt{9\cos 0 + 25\sin 0}}$$

$$tz_1 = \pm \left[\frac{120000 - 15}{\sqrt{90050 + 25\sin^2 0}} \right]$$

$$p_{i} = \frac{1}{\sqrt{|See^{i}\theta + losec^{i}\theta}}$$

$$P' = \pm \left| \frac{- k \cos 20}{\sqrt{\cos 6 + \sin 6}} \right|$$

$$\pi_1 = \frac{1}{4} \frac{4x + 3y - e}{85}$$

$$\pi_2 = \frac{2(C+3)}{5(3)}$$

$$\frac{1}{5} = \frac{2(0+3)}{5}$$

$$\frac{15}{2} = \frac{1}{3} + \frac{3}{4} + \frac{4}{4} + \frac{1}{5}$$

$$\frac{15}{2} = \pm \left| \frac{3-8+\kappa}{5} \right|$$

$$\frac{\mathsf{K}-\mathsf{5}}{\mathsf{5}} = \frac{\mathsf{15}}{\mathsf{2}}$$

$$k = \frac{85}{2}$$

(-)
$$\sqrt{37(0)}$$
, (29)
 $\frac{-k+5}{5} = \frac{15}{2}$
 $-k = \frac{66}{2}$ (+)
 $k = -\frac{65}{2}$ 2
 2^{2} 2^{2}

$$\frac{-k+5}{5} = \frac{15}{2}$$

$$-k = \frac{65}{2}$$

$$+k = \frac{-65}{2}$$

$$2i-y+1-x+2y-9=0$$

$$2i-y+1-x+2y-9=0$$

$$2i-y+1-x+2y-9=0$$

$$2i-y+1-x+2y-9=0$$

$$2i-y+1+x-2y+9=0$$

$$2i-y+1+x-2y+9=0$$

$$2n+y-\frac{5}{2}=0$$

$$4ny$$

$$2n+y+\frac{5}{2}=0$$

$$4ny$$

$$3n+y-\frac{5}{2}=0$$

$$4ny$$

$$3n+y-\frac{5}{2}=0$$

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$$\frac{4y - 3n - 3}{5} = + \frac{3y - 4n - 5}{5}$$

$$\frac{12x-5y+1=6}{13}=\pm\frac{5x+12y-16}{13}$$

(t) (ATO

$$|370|$$
 $|2n-5y+1-5n-12y+1b=0$

from O

(0.1) kansımi,

(31)



$$\tan 0 = \frac{5}{12}$$

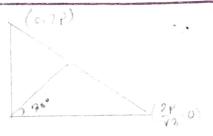
(व. ७) (व. ७) विकासमी खर्मक अभिक्ले,

$$\frac{n-a}{a-a} = \frac{y-b}{b-b}$$

$$\Rightarrow \pi(b-b') - ab + ab' = \gamma(a-a') - yb + ab$$

$$\Rightarrow \pi(b-b') + ab' = \gamma(a-a') + ab$$





(35)



we know,

$$\frac{\sqrt{3}n}{2} + \frac{y}{2} = \rho - 0$$

$$\frac{x}{2p} + \frac{y}{2p} - 1$$

अश्चिम

from D

$$\frac{\sqrt{3}}{2} + \frac{1}{2} = 5$$

tano = tan 60° = 13

$$\Rightarrow 4 = \pm \left| \frac{C}{2} \right| \quad \text{an } \left[\frac{1}{2} \right]$$

Again,
$$\frac{n}{\pm 8} + \frac{V}{\pm 8} = 1$$

ं भ उ ४ व्यक्ति (द्या कर्मा (म्ब)

± 20071

$$c = + 8$$

$$\frac{y}{\pm 8} \leftarrow \frac{y}{+8} = 1$$

: n @ (2) (EAS O O O 8)

(38)

A (213)

Y=2

.. A विकंत श्रीमाइक (3,6)

c u (1,2)

: Ae 27(1) 24) $\sqrt{1-3} = \frac{y-2}{2-0}$

$$\Rightarrow \frac{n-1}{-2} = \frac{y-2}{x}$$

(37)

न् युक्त अभीक निर्म विकर,

n-y+k =0

(2m) Kits/mit, 2-3+K=0

n-4+1=0

ं आपिक्ष समाज्य = (5,6)

· marks (46) = (5-2) + (6-3) h = 19+9 = 312

B1 (2,4)

ं २० (वर्ष अधाक्यत =

N=2 = 7-4

1 तथ (min) विकाशाभी,

4m-2n+7=0 — (1)

PA = PB

=> (m-2)+ (n-3)= (m+2)+ (n-4)-

=> m-4m+4+n-6n+9 = m+4m+4 +1-81+16

 \Rightarrow 8m-2n+7=0 - (11)

from (1) (in)

· (arbito (0, 7) (Ang)

4= mn+ m. Mn-4+ = 0 -0

(a, b)

्रायक्) हिल एद अन

x+my+ K =0 (9,0) (amplimit

$$a+k=0$$
 $k=-a$

$$n+my-a=0$$

$$Y = \frac{a}{m} - \frac{k}{m}$$

alkgw.

$$mu + \frac{q}{m} = \frac{q}{m} - \frac{k}{m}$$

$$mx + \frac{x}{m} = 0$$

(showed)

A(111) 34-14+1=0 - D(5.1)

0 पढं प्रं अथास्याम (AM 37-97+ = 0 (6.6) ABMINT

$$18-247 F = 6$$
 $K = 6$
 $39-946 = 0$

: । प्रितिक स्रामारक (2,3)

यह यह स्थायनाम हिल्ल 29-4 K = 0

(६.६) चिन्त्राक्षी,

$$K = -6$$

$$2n - y - 6 = 0$$

.. ० विक्रव भागांच्या (५.४)

.. A e व्यर्ग अभीकात्र,

$$\frac{n-1}{1-6} = \frac{y-1}{1-6}$$

$$=\frac{4-1}{-8}=\frac{4-1}{-8}$$

BO वार्त्त अभीक्त्रम्,

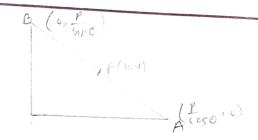
$$\frac{n-2}{2-5} = \frac{4-3}{2-4}$$

$$\frac{3}{7} = \frac{3}{1} = \frac{1}{1}$$

(Arry)

ि तह मन पमानुग्न (इ. hr,

:1 2x-y+6=0



$$2 \cos 0 + y \sin 0 = \rho$$

$$\frac{n}{p} + \frac{y}{p} = 1$$

$$\frac{1}{\cos 0} + \frac{y}{\sin 0} = 1$$

$$n = \frac{p}{\cos 0} + 0$$

$$71, 2x = \frac{\rho}{\cos \varphi}$$

$$71, 2n = \frac{p}{\cos 0}$$

$$71, \cos 0 = \frac{p}{4n^{2}}$$

ज्यवां,

$$0 + 0 = \frac{\rho(m+y')}{4m'y'}$$

(2K-2) x+ (3K-2)y-(4K-1)=0

$$2k-2=0/(3-2)y-(4-1)=0$$
 $k=1/y=3$

Again,

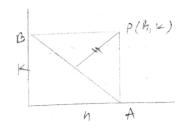
gain,

$$3k-2=0/(2\cdot\frac{2}{3}k-2)\pi-(4\cdot\frac{2}{3}-1)=0$$

 $k=\frac{2}{3}$
 $\frac{4-6}{3}\pi-\frac{8-3}{3}=0$

$$n = \frac{5}{3} \times \frac{3}{2} = \frac{5}{2} \cdot \frac{21100}{21100} \left(\frac{-5}{2}, 3\right)$$

(43)



$$\frac{\lambda}{h} + \frac{\lambda}{k} = 1$$

० में प्रव लख्न (बम्म-

(७,४) विकामी,

- जमीकवर्ति,

hn-ky + (K-h) = 0

$$\frac{3x+9y-11}{5}=-\frac{12x-5y-2}{13}$$

$$71, 39+52y-143+609-25y$$

(Ans)

$$\frac{2x+3y-5}{\sqrt{13}} = \pm \frac{3x+2y-7}{\sqrt{13}}$$

युम्बिक्तु प्रामी 20 णण C=0

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$$K = -(2+\sqrt{3})$$

निध्माक,

$$n = \pm \left| \frac{\sqrt{3}n + y - (2+13)}{\sqrt{(\sqrt{3})^{2} + 1^{2}}} \right|$$

$$= \pm \left[\frac{-2+\sqrt{3}}{\sqrt{2}} \right]$$

$$\frac{3x+9j-12}{5} = \pm \frac{5x+12y-52}{13}$$

(t) (10),

$$39n+52y-156-25x-66x+260=0$$

 $+14x-8y+104=0$

(-)
$$(70)$$
,

 $39n+52y-156+25n+60n-260=0$
 $64n+112y-916=0$
 $16(4n+7y)-26)=0$
 $4n+7y-26=0$
 $4n+7y-26=0$
 $4ny$