क्रामिक

मा भागाःकः

- Doy=mate

 rsin0 = m reos0 + e

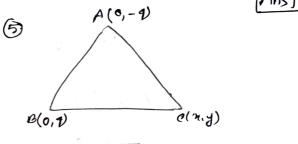
 (Ans)
- $D = a^{+}$ $R^{+} = a^{+}$ R = a (Ans)
- ② $n = 2\cos a0$ $\Rightarrow n' = 2\pi \cos 0$
- $\Rightarrow n'+y'=2ax$ $\Rightarrow n'+y'-2ax=0$ (Ans)
- - $a' = (a-7)^{2} + (5-2)^{2}$ a' = a'-14a+99+9 $a = \frac{58}{14}$ $= \frac{27}{7} [Ans]$

(3)

(4) let, (4) = x

Now, $\{(n-4)^{\frac{1}{4}}(2x-3)\}=(\sqrt{10})^{\frac{1}{4}}$ $\Rightarrow n^{\frac{1}{4}}8x + 16 + 4n^{\frac{1}{4}} - 12x + 9 = 10$ $\Rightarrow 5n^{\frac{1}{4}} - 20n + 145 = 0$ $\Rightarrow n = 1, 3$

: amtra giajogo (1,2) aprat (3,6) Ans



 $BC' = (n-0)^{2} + (y-9)^{2} = 8^{2}$ $= n^{2} + y^{2} - 8y + 16 = 64$

$$Ac^{2} = (n-0)^{2} + (y+q)^{2} = 8^{2}$$

$$= n^{2} + y^{2} + 8y + 16 = 64$$

16y = 0 y = 0 1. 27 NIA () () DOTE, N'+16 = 64 N' = 48' = 9

(1/3,0) (Ans)

7 = 4/3

मार्ज्याल,

$$x = \frac{4 \times 4 \neq -1 \times -2}{3}$$

$$=\frac{16+2}{3}=6$$

$$Y = \frac{4x-5-1x4}{3}$$

$$= \frac{-24}{3}$$

$$Ap = \sqrt{(1-2)^{2} + (2+1)^{2}}$$

$$= \sqrt{90}$$

$$BD^{t} = AB^{t} - AD^{t}$$

$$= 10^{t} - (\sqrt{190})^{t}$$

$$BD = \sqrt{10}$$

Showed

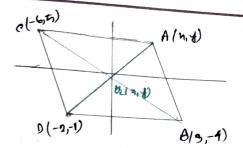
Now,
$$0 = \frac{k-10k+7k}{k+1}$$

$$k = \frac{7}{10}$$

Again, $u = \frac{7x - 5 + 10x7}{17}$

$$i \chi = \frac{35}{17}$$





$$V = \frac{-6+3}{2} = -\frac{3}{2}$$

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

Again

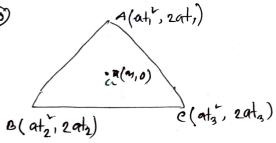
$$\frac{3}{2} = \frac{\chi - 2}{\chi} \qquad \frac{1}{\chi} = \frac{\chi - 1}{\chi}$$

$$\Rightarrow \chi = -3 + 2 \qquad \chi = 1 + 1$$

$$= -1 \qquad = 2$$

ं भूमाएक (-1,2)

(6)



$$0 = \frac{2at_1 + 2at_2 + 2at_3}{3}$$

$$2a(1+t_2+t_3) = 0$$

 $t_1+t_2+t_3 = 0$
(Showed)

$$\frac{2\pi \cos(0)}{2} = 0$$

$$8a^{2} + 9a - 9 = 0$$

$$0 = -1, \frac{1}{2} = 0$$
Ans

(1)

$$AABe = \frac{1}{2} \begin{vmatrix} 2k+2 & 2t & 1 \\ 2t+1 & 3 & 1 \\ t+1 & 1 & 1 \end{vmatrix}$$

$$\Rightarrow \frac{1}{2} \begin{vmatrix} 1 & 2t-3 & 0 \\ t & 2 & 0 \\ t+1 & 1 & 1 \end{vmatrix}$$

$$=\frac{1}{2}\left[2-2t^{2}+3t\right]$$

$$=\frac{1}{2}(2\cancel{2}\cancel{4}\cancel{3}\cancel{1}-2)$$

(2)

$$\frac{1}{2} \begin{vmatrix} \alpha - 1 + \alpha & 2 - 2a - 2a & 0 \\ 1 - a - 4a + 4 & 2a - 6 + 2a & 0 \\ -4 - a & 6 - 2a & 1 \end{vmatrix}$$

$$\Rightarrow \frac{1}{2} \begin{vmatrix} 2a-1 & 2-9a \\ 5 & 4a-6 \end{vmatrix}$$

$$\begin{array}{c|cccc}
(394 & 1 & 1) & = 6 \\
2 & 1 & 2 & 1 \\
2 & 1 & 1
\end{array}$$

$$\begin{array}{c|ccccc}
-1 & 1 & 0 & = 6 \\
2 & 1 & 1 & 0
\end{array}$$

$$= \frac{1}{2} | x - 1 + y - 2 | = 6$$

$$= x + y - 3 = 12$$

$$\frac{20+30}{2} = 25$$

$$\frac{30+10}{2} = 20$$

$$n = \frac{20 + 10 + 30}{3} = 20$$

$$y = \frac{30 + 20 + 10}{3} = 20$$

$$(n,y) = (20,20)$$

$$GD = (20-25)^{\frac{1}{20}} + (20-20)^{\frac{1}{20}}$$

$$GD = \sqrt{(5)}^{\frac{1}{20}}$$

$$GD = 5$$

$$Ams$$

$$\Delta AOB = \Delta AEO + \frac{1}{51!}ABDE - ABOD$$

$$= \frac{1}{2} n_1 y_1 + \frac{1}{2} (y_2 + y_1) (n_2 - n_1) - \frac{1}{2} n_2 y_2$$

$$= \frac{1}{2} (n_2 y_1 + n_2 y_2 - n_1 y_1 - n_2 y_1)$$

$$= \frac{1}{2} (n_2 y_1 - n_2 y_2)$$

$$= \frac{1}{2} (n_1 y_2 - n_2 y_1) | \text{ (proved)}$$

$$D = \frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2}$$

$$E = \frac{\gamma_4 + \gamma_3}{2}, \frac{\gamma_3 + \gamma_4}{2}$$

$$DE = \sqrt{\frac{n_1 + n_2}{2} - \frac{n_4 - n_3}{2}} + (\frac{y_1 + y_2}{2} - \frac{y_1 + y_3}{2})^{\frac{1}{2}}$$

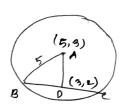
$$= \sqrt{\frac{n_4 + n_2 - x_1 + x_3}{2}} + (\frac{y_1 + y_2 - y_1 + y_3}{2})^{\frac{1}{2}}$$

$$= \sqrt{\frac{n_2 - x_3}{4}} + \frac{(y_2 - y_3)^{\frac{1}{2}}}{2}$$

$$= \frac{1}{2} \sqrt{(n_2 - n_3)^{\frac{1}{2}} + (y_2 - y_3)^{\frac{1}{2}}}$$

$$Be = \frac{1}{2}DE$$
(proved)

(7)



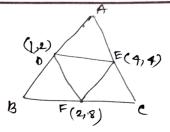
$$Ab = \sqrt{(5-3)^{2} + (3-2)^{2}}$$

$$= \sqrt{5}$$

$$BD = \sqrt{5} - (\sqrt{5})^{2}$$

= $\sqrt{20}$
= $2\sqrt{5}$

(19)



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= 32 85 300 [Ans]