

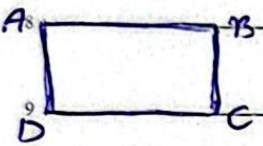
1 A γ_0 مساحتی یازم در A است γ_0

2 $y - k = -\frac{1}{\gamma}(\alpha + \gamma) \text{ و } y - m = -\frac{1}{\gamma}(\alpha - \epsilon)$ (1)

3 $y = -\frac{1}{\gamma}\alpha + k \text{ و } y = -\frac{1}{\gamma}\alpha + \gamma + m \Rightarrow k - m = \gamma$ (2)

5 $دب AB = \sqrt{(k - (-\gamma))^2 + (k - m)^2} \text{ و } \sqrt{\epsilon^2 + 9} \text{ و } \epsilon \sqrt{\Delta} \Rightarrow 8 \text{ و } (\epsilon \sqrt{\Delta})^2 \text{ و } (\epsilon \Delta)$

7 $\alpha_A + \alpha_C \text{ و } \alpha_B + \alpha_D \rightarrow -1 + \alpha \text{ و } 1 - \alpha \rightarrow \alpha \text{ و } (\frac{\epsilon}{\gamma})^* \text{ و } \gamma$



$\rightarrow m_{AB} = \frac{-1}{m_{BC}} \rightarrow m_{AB} = \frac{\gamma}{-\epsilon} \text{ و } \frac{-1}{\gamma - 1} \Rightarrow \gamma - \epsilon = \gamma$
* $-\frac{\epsilon}{\gamma}$ $\gamma - 1$

11 $دب AB = \sqrt{17 + 9} \text{ و } \Delta$

12 $دب BC = \sqrt{9 + \epsilon^2} \text{ و } \Delta/\gamma \rightarrow \frac{\epsilon^2}{\gamma^2} \text{ و } 10 + \Delta \text{ و } \Delta$

14 $\gamma m \alpha + (m^2 - 1) \gamma = \gamma^2 \rightarrow \gamma = \frac{\gamma m}{m^2 - 1} \alpha + \frac{\gamma}{m^2 - 1}$ (2)

16 $\gamma \cdot \alpha \rightarrow m \text{ و } \alpha \text{ و } \gamma \cdot \sqrt{\epsilon} \text{ و } \frac{-\gamma m}{m^2 - 1} \rightarrow m^2 \sqrt{\epsilon} - \sqrt{\epsilon} = -\gamma m$

$m^2 \sqrt{\epsilon} + \gamma m - \sqrt{\epsilon} =$

18 $\frac{\sqrt{\Delta}}{|\alpha|} \text{ و } \frac{\sqrt{\epsilon - (\epsilon + \sqrt{\epsilon^2 - \gamma^2})}}{\sqrt{\epsilon}} \text{ و } \frac{\gamma}{\sqrt{\epsilon}}$ α و $\sqrt{\epsilon}$ و γ

5, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21

$$m_{BC} = \frac{A}{z} = \frac{1}{\sqrt{5}} \rightarrow y = \frac{1}{\sqrt{5}}(x-2) \quad (1)$$

$$\rightarrow y = \frac{1}{\sqrt{5}}x - \frac{2}{\sqrt{5}}$$

BC دس | $r(1) - 9 - 4$ | $\frac{1}{\sqrt{5}}$ | $\sqrt{5}$

$$\frac{|r(1) - 9 - 4|}{\sqrt{5+1}} = \frac{1}{\sqrt{5}} \sqrt{5}$$

B سىق

$$2y - vx = -19 \rightarrow y = \frac{v}{2}x - \frac{19}{2} \quad (2)$$

BC دس AB دس

$$\rightarrow -2x + v = \frac{v}{2}x - \frac{19}{2} \rightarrow -2x + 19 = \frac{v}{2}x - 19$$

$$\rightarrow 38 = vx \rightarrow x = \frac{38}{v}$$

AC دس | $r(1) - r(2) - 14$ | $\frac{22}{5}$ | $\sqrt{17+9}$

$$\frac{|r(1) - r(2) - 14|}{\sqrt{17+9}} = \frac{22}{5} \sqrt{17+9}$$

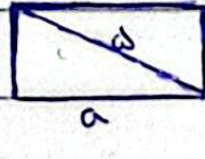
$$ay - x = a - 1 \rightarrow y = \frac{x+a-1}{a} \quad (3)$$

$$y - ax = 1 \rightarrow y = ax + 1$$

$a=1 \rightarrow y = x, y = x+1$ → كوتىمىنىڭ ئۆزگىرىشىنى كۆرسىتىدۇ (3,2) نىڭ قىممىتى

$a=1 \rightarrow y = -x+1, y = -x+2$ → x نىڭ ئۆزگىرىشىنى كۆرسىتىدۇ

1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21

$$\frac{|c'-c|}{\sqrt{a^2+b^2}} = \frac{1}{\sqrt{2}}$$


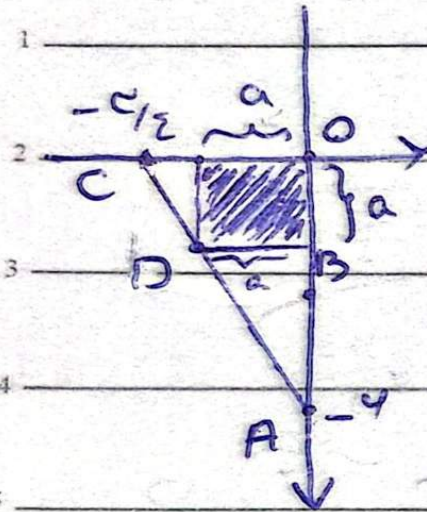
$$\rightarrow a^2 = \frac{1}{2} \rightarrow a = \frac{1}{\sqrt{2}} \rightarrow S = \frac{1}{\sqrt{2}} \times \frac{1}{\sqrt{2}} = \frac{1}{2}$$

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(4) مربع ← اضعه باسم رادربند . $BD = OB$



مربعين : $\frac{AB}{OA} = \frac{BD}{OC}$

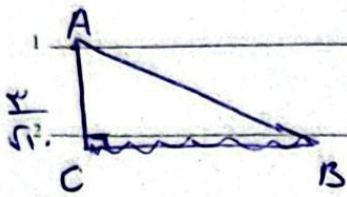
(5)

$$s \frac{4-a}{4} = s \frac{a}{\frac{c}{2}} \rightarrow 4a = \frac{c}{2} - \frac{4a}{\epsilon}$$

$$\frac{4a}{\epsilon} = \frac{c}{2} - 4a \rightarrow a = \frac{\frac{c}{2}}{4 + \frac{1}{\epsilon}}$$

مربعين =

$$s \frac{1}{\epsilon} = \frac{c}{2} \times \sqrt{2} \rightarrow \frac{1}{\epsilon} = \frac{c\sqrt{2}}{2}$$



(1) فرض کریں کہ A سے B تک کی فاصلہ 1 ہے۔

$$x^2 + x^2 = 1 \Rightarrow 2x^2 = 1 \Rightarrow x^2 = \frac{1}{2} \Rightarrow x = \frac{1}{\sqrt{2}}$$

(5)

4

$$d = \frac{|1 - 3(1) - 1|}{\sqrt{1+9}} = \frac{3}{\sqrt{10}}$$

5

6

$$y = 0 \Rightarrow 3(x-2) \Rightarrow y = -3x + 6$$

7

AC, BC کے لیے:

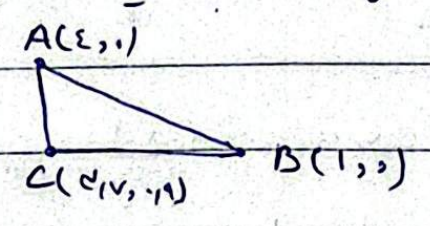
$$C \Rightarrow -3x + 6 = \frac{1}{3}x \Rightarrow -9x + 18 = x \Rightarrow -10x = -18 \Rightarrow x = \frac{9}{5}$$

$$-10x = -18 \Rightarrow x = \frac{9}{5}$$

10

اس لیے کہ B سے A تک کی فاصلہ 1 ہے۔

$$0 = \frac{x}{2} - \frac{1}{2} \Rightarrow x = 1$$



13

$$\rightarrow \text{ماتریس} : \begin{vmatrix} 4 & 0 & 1 \\ 3/4 & -1/4 & 1 \\ 1 & 0 & 1 \end{vmatrix} \Rightarrow \frac{1}{4}(3 - 1) = \frac{1}{2} \times 2 = 1$$

16

$$\Delta = \frac{a-b}{-1/4} \Rightarrow a-b = \frac{1/4}{-1/4} = -1$$

(9)

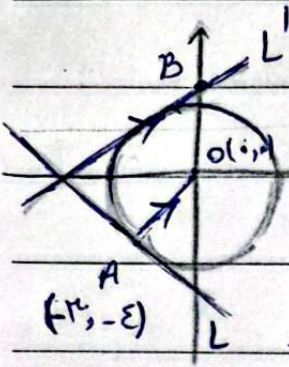
18

$$\Delta = \sqrt{\frac{1}{16} + \frac{1}{16}} = \frac{1}{4} = \frac{1}{2}$$

20

$$\text{مساحت} : \frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$$





1. خط \$L'\$ کے لیے

(2)

3. ہم دائرہ کے لیے \$r\$ اور \$OA\$ کی قیمتیں معلوم کریں گے

4. خط \$L\$ کی مساوی $(3x - 1)y = 0$

5. خط \$L'\$ کی مساوی $OA \perp L' \Rightarrow \frac{OA}{OA} = \frac{L'}{L}$

7. $\frac{OA}{OA} = \frac{L'}{L} \Rightarrow \frac{r}{r} = \frac{L'}{L} \Rightarrow L' = -\frac{r}{\epsilon}$

9. خط \$L\$ کی مساوی: $y + \epsilon = -\frac{r}{\epsilon}(x + 1) \Rightarrow y = -\frac{r}{\epsilon}x - \frac{r}{\epsilon} - \epsilon$

11. خط \$L'\$ کی مساوی \$B\$ کے لیے معلوم کریں اور \$y\$ کی قیمتیں معلوم کریں۔

13. $L' : y = \frac{\epsilon}{r}x + b$ اور $d = \frac{b}{\sqrt{1 + \frac{\epsilon^2}{r^2}}} = d \Rightarrow b = \frac{r}{\epsilon}d$

14. $L' : y = \frac{\epsilon}{r}x + \frac{r}{\epsilon}d$

16. $\frac{\epsilon}{r}x + \frac{r}{\epsilon}d = -\frac{r}{\epsilon}x - \frac{r}{\epsilon} - \epsilon$ $\times 12 \Rightarrow 12\epsilon x + 12r d = -12r x - 12r - 12\epsilon$

18. $12\epsilon x + 12r d = -12r x - 12r - 12\epsilon \Rightarrow x = (-1), y = (-1) \Rightarrow x \cdot y = 1$