

ممكن - 1A, 2A, 3A

ممكن

Subject: ()

Date: _____

$$A \begin{vmatrix} -r \\ k \end{vmatrix} \quad B \begin{vmatrix} r \\ m \end{vmatrix}$$

$$A \begin{vmatrix} -r \\ k \end{vmatrix} \quad B \begin{vmatrix} r \\ -r+k \end{vmatrix} \quad : 1$$

$$m_{AB} = -\frac{1}{r} \quad \frac{m-k}{r-(-r)} = -\frac{1}{r} \rightarrow m-k = -r$$

$$m = -r+k$$

$$AB = \sqrt{(r)^2 + (-r)^2} = \sqrt{r^2 + r^2} = \sqrt{2}r$$

$$= r\sqrt{2}$$

$$S = (r\sqrt{2})^2 = 2r^2$$

$$A \begin{vmatrix} -1 \\ r \end{vmatrix} \quad B \begin{vmatrix} r \\ 1 \end{vmatrix} \quad C \begin{vmatrix} 2 \\ y \end{vmatrix} \quad D \begin{vmatrix} -1-2 \\ y+r \end{vmatrix}$$

: 2

$$m_{AB} = m_{CD} \Rightarrow \frac{r}{-r} = \frac{-r}{r+1} \rightarrow r+1 = r \rightarrow r = \frac{r}{r}$$

$$m_{AB} \times m_{BC} = -1 \rightarrow \frac{r}{r} \times \frac{1-y}{r} = -1 \rightarrow y = -1$$

$$C \begin{vmatrix} r \\ -1 \end{vmatrix}$$

$$AB = \sqrt{1^2 + 1^2} = \sqrt{2}$$

$$BC = \sqrt{1^2 + 1^2} = \sqrt{2}$$

$$P = r\left(\frac{1}{\sqrt{2}} + \frac{1}{\sqrt{2}}\right) \Rightarrow P = \sqrt{2}$$

$$r m_x + (m^2 - 1) y = r$$

: 3

$$\tan \theta = \frac{y}{x} \rightarrow \frac{y}{x} = \sqrt{r}$$

$$\sqrt{r} m^2 - \sqrt{r} s = -r m$$

$$\frac{y}{x} = -\frac{a}{b} \rightarrow \frac{-r m}{m^2 - 1} = \sqrt{r}$$

$$\sqrt{r} m^2 - \sqrt{r} + r m s$$

$$\Delta = r + r \times \sqrt{r} \times \sqrt{r} = 1/r$$

$$m = \frac{-r \pm \sqrt{r^2 - 4 \times \frac{1}{r} \times (-r)}}{2 \times \frac{1}{r}} \rightarrow 1) \frac{-r}{2 \sqrt{r}} \quad 2) \frac{r}{2 \sqrt{r}} \rightarrow \frac{r}{\sqrt{r}} - \frac{1}{\sqrt{r}} = \frac{r\sqrt{r}}{\sqrt{r}} - \frac{r\sqrt{r}}{\sqrt{r}}$$

$$A \mid \begin{matrix} 1 \\ 7 \end{matrix} \quad B \mid \begin{matrix} 13 \\ 13 \end{matrix} \quad C \mid \begin{matrix} 11 \\ 11 \end{matrix}$$

$$m_{BC} = \frac{11-13}{13-13} = \frac{\Delta}{\Delta} = 1$$

$$y = 1x + b \quad \begin{matrix} 13 \\ 13 \end{matrix} \rightarrow 13 = 1 + b \rightarrow b = 12 \rightarrow y = 1x + 12$$

$$y = 1x + 12 \quad \begin{matrix} 1 \\ 1 \end{matrix}$$

$$\frac{|1-1+12|}{\sqrt{1}} = \frac{12}{1} = 12 \quad \boxed{12}$$

$$AB: y = 1x + 12 \quad AC: y = 13x + 11 \quad BC: y = 1x + 12$$

$$AB: y = -1x + 12 \rightarrow 1y = -1x + 12$$

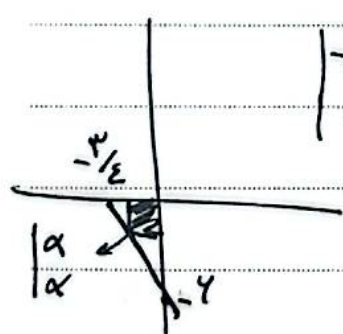
$$BC: y = 1x + 12 \rightarrow 1y = 1x + 12$$

$$\rightarrow \begin{matrix} -1x + 12 = 1x + 12 \\ 11x = 12 \\ x = 1, y = 1 \end{matrix}$$

$$AC: y = 13x + 11$$

$$B \mid \begin{matrix} 13 \\ 13 \end{matrix}$$

$$\frac{|13-1-11|}{\Delta} = \frac{12}{\Delta} = 12 \quad \boxed{12}$$



$$\begin{matrix} -\frac{1}{2} \\ 0 \end{matrix} \quad \begin{matrix} 0 \\ -1 \end{matrix}$$

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

$$y = -1x + b \quad \begin{matrix} 1 \\ 1 \end{matrix} \rightarrow y = -1 \rightarrow b = -1$$

$$y = -1x - 1$$

$$\frac{1}{2} \rightarrow \sqrt{\left(\frac{1}{2}\right)^2 + \left(\frac{1}{2}\right)^2} = \frac{1}{2}\sqrt{2}$$

Arman

$$y = ax + 1$$

(V)

$$ay = x + a - 1 \rightarrow y = \frac{1}{a}x + \frac{a-1}{a}$$

$$a = \frac{1}{a} \Rightarrow a^2 = 1$$

$$a = \pm 1$$

$$\underline{a=1} \rightarrow y = x + 1 \text{ و } y = x \quad \left| \begin{array}{l} 1 \\ 1 \end{array} \right| \rightarrow y = x + 1$$

جواب صحیح

$$\underline{a=-1} \rightarrow y = -x + 1 \text{ و } y = -x + 2$$

جواب صحیح
مقدار $\frac{1}{a}$

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

دعوی

$$d^2 - \left(\frac{\sqrt{2}}{2}\right)^2 = (d\sqrt{2})^2$$

$$d\sqrt{2} = \frac{V}{\sqrt{2}}$$

$$S = \int \alpha \text{ عرض} \Rightarrow \frac{V}{\sqrt{2}} \times \frac{\sqrt{2}}{2} = \frac{V}{2}$$

$$x - 3y = 1 \rightarrow 3y = x - 1 \rightarrow y = \frac{x}{3} - \frac{1}{3} \rightarrow \frac{|x-1|}{\sqrt{1}} = \frac{2\sqrt{1}}{1}$$

(1)

A/R

$$m_{AC} = -3 \rightarrow y = -3x + b \xrightarrow{A/R} b = 12 \rightarrow y = -3x + 12$$

$$3y = x - 1, \quad 3y = -9x + 32 \rightarrow 10x = 33 \rightarrow x = 3.3, y = 0.9$$

$$\left| \begin{array}{ccc|c} 3.3 & 3 & 1 & \\ 0.9 & . & . & \\ 1 & 1 & 1 & \end{array} \right|$$

$$\rightarrow 0.9 - 3.3 = -2.4$$

$$S = \frac{1}{2} \times 2.4 \times 3.3 = 3.96$$

— Arman —

(9)

$$\begin{vmatrix} -\frac{1}{r} \\ a \end{vmatrix} \begin{vmatrix} -\frac{1}{r} \\ b \end{vmatrix} \quad \frac{b-a}{(-\frac{1}{r} + \frac{1}{r})} = \sqrt{r}$$

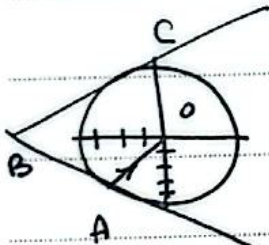
$$b-a = \frac{\sqrt{r}}{r}$$

$$\text{طول ضلع} \rightarrow \sqrt{\frac{1}{r^2} + \left(\frac{b-a}{r}\right)^2} \rightarrow \sqrt{\frac{1}{r^2} + \frac{1}{r^2}} = \sqrt{\frac{2}{r^2}}$$

$$\rightarrow \text{مساحة} \rightarrow \sqrt{2} \times \frac{\sqrt{r}}{r} = \frac{\sqrt{2} \times \sqrt{r}}{r} = \frac{\sqrt{2}}{\sqrt{r}} \rightarrow \frac{2}{r}$$

$$\begin{vmatrix} -r \\ -r \end{vmatrix}$$

$$r = \sqrt{r^2 + r^2} = d$$



$$M_{OA} = M_{BC}$$

$$\frac{r}{r}$$

$$BC \rightarrow y = \frac{r}{r}x + b \xrightarrow{\times r} ry = rx + rb$$

$$BC \Rightarrow y = \frac{r}{r}x + \frac{rd}{r}$$

$$BC \Rightarrow ry - rx - rd = 0$$

$$AB \Rightarrow y = -\frac{r}{r}x + b \rightarrow -r = \frac{r}{r} + b$$

$$\begin{aligned} \frac{1-r}{-2} \quad b &= -r - \frac{r}{2} = -\frac{3r}{2} \end{aligned}$$

$$AB = rx + ry + rd$$

$$BC \text{ و } AB \rightarrow \frac{|ry - rx + rb|}{\sqrt{r^2}} = d \rightarrow |rb| = rd \rightarrow b = \frac{rd}{r} \quad \begin{cases} rx + ry + rd \\ ry - rx - rd \end{cases}$$

— Arman

$$xy = v \left\{ \begin{aligned} x &= -\frac{-v\omega - 1}{-14 - 9} = -v \\ y &= \frac{1 - v\omega}{-14 - 9} = -1 \end{aligned} \right.$$