

باز هم دفتر

کتابخانه

خانه

۲۰

$$m = \frac{\Delta y}{\Delta x} = -\frac{1}{r} \rightarrow \frac{k-m}{-k-r} = -\frac{1}{r} \rightarrow k-m=r$$

$$\text{طول ضلع} = \sqrt{r^2 + 9} = \sqrt{r^2} = r\sqrt{5}$$

(۱)

$$L \rightarrow S = (r\sqrt{5})^2 = 5r^2$$

(۲)

AB || CD $\rightarrow m_{AB} = m_{CD} \rightarrow \frac{r}{-r} = \frac{-r}{r_{n+1}} \rightarrow r_{n+1} = -r \rightarrow x = \frac{r}{r}$

AB $\perp$ AC $\rightarrow m_{AB} \times m_{AC} = -1$

$\frac{-r}{r} \times \frac{1-y}{x} = -1 \rightarrow \frac{r_y - r}{r \times \frac{r}{r}} = -1 \rightarrow r_y - r = -r$

$r_y = -1$

$\sqrt{\Delta x^2 + \Delta y^2} = \sqrt{4+1} = \Delta$

$\sqrt{r^2 + \frac{9}{r^2}} = \frac{r\Delta}{r} \rightarrow \frac{\Delta}{r} = r\Delta$

$P = r(\Delta + r\Delta) = 1\Delta$

(۲)

(۳)

$$(m^r - 1)y = -r_m x + r \Rightarrow y = \frac{-r_m}{m^r - 1} x + \frac{r}{m^r - 1}$$

(۳)

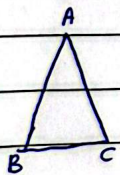
$$\tan \theta_0 = \sqrt{r} \rightarrow \frac{-r_m}{m^r - 1} = \sqrt{r} \rightarrow \sqrt{r} m^r - \sqrt{r} = -r_m \rightarrow \sqrt{r} m^r + r_m = \sqrt{r}$$

(۴)

$$m^r + r_m - r \rightarrow (m + \frac{r}{\sqrt{r}}) \left(m - \frac{1}{\sqrt{r}} \right) \Rightarrow m_1 = \frac{-r}{\sqrt{r}} = -\sqrt{r}$$

$$m_r - m_1 = \frac{\sqrt{r}}{r} - (-\sqrt{r}) = \frac{\sqrt{r}}{r} + \sqrt{r} = \frac{r\sqrt{r}}{r}$$

$$m_r = \frac{1}{\sqrt{r}} = \frac{\sqrt{r}}{r}$$



AH عمود است بر BC

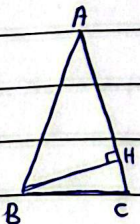
$$BC \text{ لایه} \rightarrow m_{BC} = \frac{11-r}{r-r}$$

$$AH = \frac{|an+by+c|}{\sqrt{a^2+b^2}} \rightarrow \frac{|9-r+r|}{\sqrt{1+1}} = \frac{10}{\sqrt{2}} = \frac{10\sqrt{2}}{2} = 5\sqrt{2}$$

(۵)

(۶)

$$y-r = r(n-r) \rightarrow y-r = rn-r \rightarrow y-rn+r^2=0$$



$$AC \text{ ; } B \text{ لایه} \rightarrow ry - rn - 14 = 0$$

(۷)

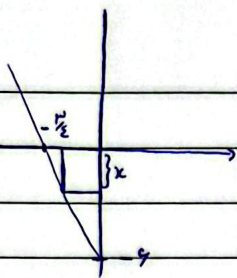
(۸)

$$\begin{cases} BC : y + rn - 14 = 0 \rightarrow ry + rn - 14 = 0 \\ AB : ry - rn + 14 = 0 \end{cases}$$

$$BH = \frac{|an+by+c|}{\sqrt{a^2+b^2}} = \frac{|14-9-14|}{\sqrt{r^2}} = \frac{9}{r}$$

$$11n - 3r^2 = 0 \rightarrow n = \frac{3r^2}{11} \quad y = 1$$

$$= \frac{r}{\Delta} = r_1 \Delta$$



$$\frac{x}{\frac{r}{\varepsilon}} = \frac{4-n}{4} \rightarrow 4n = \frac{4}{\frac{r}{\varepsilon}} \rightarrow \frac{r}{\varepsilon} x = \frac{4}{\frac{r}{\varepsilon}} \rightarrow x = \frac{4}{r} = \text{طريق}$$

$$\text{قوس ربع} = \sqrt{r} = \frac{r}{\sqrt{r}}$$

(4)

(y)

$$y = an + 1$$

$$\text{نابرمقرب باب} \rightarrow 1 \neq \frac{a-1}{a}$$

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

$$\text{نابرمقرب} \rightarrow a = \frac{1}{a} \rightarrow ar = 1 \rightarrow a = \frac{1}{r}$$

$$y = n + 1, y = n \rightarrow (1, 2) \rightarrow r = 1 + 1$$

$$y = n + 1, y = n + 2 \rightarrow (2, 3) \rightarrow r = 1 + 2$$

$$\frac{y}{x} = \frac{1}{n} \rightarrow \frac{1}{n} = \frac{|c-c'|}{\sqrt{a^2+b^2}} = \frac{|0-1|}{\sqrt{1+1}} = \frac{1}{\sqrt{2}} = \frac{r}{r} \rightarrow \sqrt{a^2 - \left(\frac{r}{r}\right)^2} = \sqrt{r^2 - \frac{1}{r^2}} = \frac{r}{r} = \frac{r}{r}$$

$$S = \left(\frac{\sqrt{r}}{r}\right) \times \frac{\sqrt{r}}{r} = \frac{r}{r}$$

$$AB = \frac{|an+by+c|}{\sqrt{a^2+b^2}} = \frac{|1 \cdot 0 - 0 - 1|}{\sqrt{1+9}} = \frac{r\sqrt{10}}{10}$$

$$S = \frac{r\sqrt{10}}{10} \times \frac{r\sqrt{10}}{10} = \frac{r^2}{10} = \frac{r}{r}$$

$$BH^r + AH^r = AB^r \rightarrow BH^r = 9 - \frac{r^2}{10} = \frac{11}{10} \rightarrow BH = \frac{9}{\sqrt{10}}$$

$$m = \sqrt{r} \rightarrow \frac{b-a}{-\frac{1}{r} + 1} = \frac{b-a}{\frac{1}{r}} = \sqrt{r} \rightarrow b-a = \frac{\sqrt{r}}{r}$$

$$\sqrt{\left(\frac{\sqrt{r}}{r}\right)^2 + \frac{1}{r^2}} = \sqrt{\frac{r+1}{r^2}} = \frac{r}{r} = \frac{1}{r} \rightarrow \text{قوس ربع} = a \rightarrow \sqrt{a} \rightarrow \frac{1}{r} = \frac{1}{r} \times \frac{r}{r} = \frac{r}{r}$$

$$\sqrt{(a+r)^2 + (a+i)^2} \rightarrow r = \omega$$

$$m_{OA} = \frac{r}{r}, m_{BC} = \frac{r}{r} \rightarrow BC \rightarrow y = \frac{r}{r}n + b \rightarrow ry - \varepsilon n - rb = 0$$

$$\omega = BC \text{ (D) } \rightarrow \frac{|ry - \varepsilon n - rb|}{a} = \omega \rightarrow -rb = r\omega \rightarrow b = \frac{r\omega}{r} = \omega$$

$$BC \rightarrow y = \frac{r}{r}n + \frac{r\omega}{r} \rightarrow BC = -\varepsilon n + ry - r\omega = 0$$

$$m_{AB} = -\frac{1}{\varepsilon} \rightarrow y + \varepsilon = -\frac{1}{\varepsilon}(n+r) \rightarrow y = -\frac{1}{\varepsilon}n - \frac{r}{\varepsilon} \rightarrow AB \rightarrow rn + \varepsilon y + r\omega = 0$$

$$x = \frac{-\omega\omega - 100}{-14 - 9} = -V \quad y = \frac{100 - \omega\omega}{-14 - 9} = -1 \rightarrow xy = -Vx - 1 = V$$

(10)

(y)