

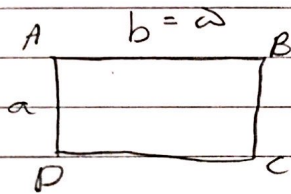
۲۰

$A(-r, k) \quad B(\varepsilon, m) \quad a = \frac{-1}{r} \quad -1$

$a = \frac{m-k}{\varepsilon-(-r)} = \frac{-1}{r} \Rightarrow m-k = -r \Rightarrow \text{میدان} = \text{میدان}$ (۲)

$\Rightarrow \text{میدان} = \sqrt{\underbrace{(\varepsilon-(-r))^2}_{3^2} + \underbrace{(m-k)^2}_{9}} = \sqrt{\varepsilon^2} \Rightarrow S = \varepsilon^2$

$D(-1-n, y+r) \quad C(n, y) \quad B(r, 1) \quad A(-1, \varepsilon) \quad -r$



$\Rightarrow n_A + n_C = n_B + n_D$
 $-1 + n = r - 1 - n$

$m_{AB} = \frac{\varepsilon-1}{-1-r} = \frac{r}{-\varepsilon}$
 $\Downarrow$
 $m_{BC} = \frac{\varepsilon}{r}$ (۲)

$rn = r \Rightarrow n = \frac{r}{r}$

$b = \sqrt{\underbrace{(r-(-1))^2}_{1^2} + \underbrace{(1-\varepsilon)^2}_{9}} = \omega$

$\frac{\varepsilon}{r} + h = 1$
 $\Downarrow$
 $h = -r$

$a = \sqrt{\underbrace{(\frac{r}{r}-r)^2}_{\frac{9}{\varepsilon}} + \underbrace{(-1-1)^2}_{\varepsilon}} = \frac{\omega}{r}$
 $\Leftarrow (\frac{r}{r} - 1)$

$\Rightarrow P = r(\omega + \frac{\omega}{r}) = 1a$

$\theta = 90^\circ$

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

$\Downarrow$
 $\tan \theta = \sqrt{r} \Rightarrow a = \sqrt{r} \Rightarrow \frac{rm}{1-m^2} = \sqrt{r}$ (۲)

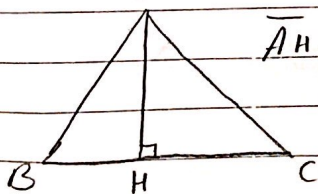
$\sqrt{r} - \sqrt{r}m^2 = rm$

$\sqrt{r}m^2 + rm - \sqrt{r} = 0 \Rightarrow |\alpha - \beta| = \frac{\sqrt{\Delta}}{|a|} = \frac{\sqrt{\varepsilon - \varepsilon\sqrt{r}(-\sqrt{r})}}{\sqrt{r}} = \frac{\varepsilon}{\sqrt{r}}$ (۲)

$A(\sqrt{r}, 1) \quad B(r, r) \quad A(1, 9) \quad -\varepsilon$

$\overline{AH} = \frac{|y - rm + r|}{\sqrt{1+r^2}} = \frac{10}{\sqrt{2}} \times \frac{\sqrt{2}}{\sqrt{2}} = 2\sqrt{2}$ (۲)

$m_{BC} = \frac{11-r}{\sqrt{r}-r} = \frac{1}{\varepsilon} = r$

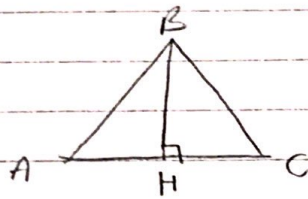


$\overline{AH} = \text{مساحت } A \text{ دایره}$

$r(r) + h = r \Rightarrow h = -r \Rightarrow y = rm - r$

$$AB: y + rn = V \quad AC: \varepsilon y - rn = 1V \quad BC: ry - vn = -19$$

$$BH = 9$$



$$y = \frac{V}{r}n - \frac{19}{r}$$

B line = AB, BC line, where

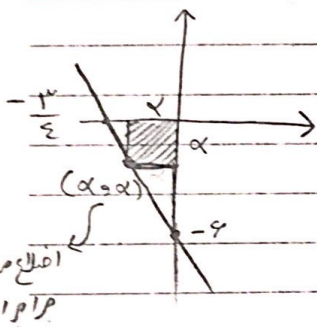
$$V - rn = \frac{V}{r}n - \frac{19}{r}$$

$$BH = \frac{|\varepsilon y - rn - 1V|}{\omega} = \frac{r}{\omega}$$

$$18 - \varepsilon n = Vn - 19$$

$$r3 = 11n \Rightarrow n = 3$$

$$B(13, 1)$$



$$y = ax - 9$$

$$-\frac{r}{\varepsilon}a - 9 = 0 \Rightarrow \frac{r}{\varepsilon}a = 9 \Rightarrow a = \frac{\varepsilon}{r} \times 9 = -1$$

$$y = -1x - 9 \Rightarrow \alpha = -1\alpha - 9$$

$$9\alpha = -9 \Rightarrow \alpha = \frac{-9}{9} = -1$$

$$\Rightarrow \vec{1} = \frac{-r\sqrt{r}}{r}$$

$$y - an = 1 \quad ay - n = a - 1 \Rightarrow \text{مقابل } a/r = 1/r \Rightarrow a = r$$

$$\vec{1} = \omega$$

$$(1, r)$$

$$S = 9$$

$$a = \frac{1}{a} \Rightarrow a = \pm 1$$

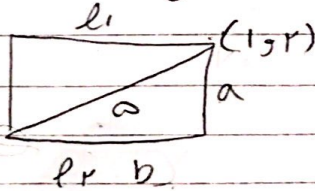
$$a = 1 \Rightarrow y = n + 1$$

$$y = n$$

$$(1, r) \text{ أس } \vec{1} \text{ مرقع}$$

$$a = -1 \Rightarrow y = -n + 1$$

$$y = -n - r$$



$$a = \frac{|1 - r|}{\sqrt{r}} = \frac{1}{\sqrt{r}}$$

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

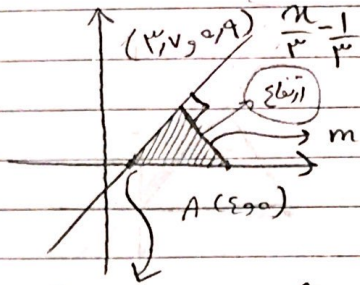
$$\Rightarrow S = \frac{1}{\sqrt{r}} \times \frac{r}{\sqrt{r}} = \frac{r}{r} = 1$$

$$\left(\frac{1}{\sqrt{r}}\right)^2 + b^2 = \omega$$

$$\frac{1}{r} + b^2 = \omega \Rightarrow b^2 = \frac{\varepsilon 9}{r} \Rightarrow b = \frac{V}{\sqrt{r}}$$

A (2,0)

$$n - 3y = 1$$



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

$$m = -3 \Rightarrow -3(x) + h = 0 \Rightarrow h = 3x$$

$$-3n + 3 = \frac{n-1}{1}$$

$$\frac{n-1}{1} = 0 \Rightarrow n = 1$$

$$-9n + 3 = n - 1$$

(1,0)

$$\frac{3V}{30} - \frac{10}{30} = \frac{9}{30} = 0.3$$

$$3V = 10n \Rightarrow n = \frac{3V}{10}$$

$$\frac{1}{\sqrt{10}} = \frac{3}{\sqrt{10}}$$

$$0.3 = \sqrt{\left(\frac{3V}{10}\right)^2 + \left(\frac{10}{10}\right)^2} = \sqrt{\frac{9V^2}{100} + 1} = \frac{9\sqrt{10}}{10}$$

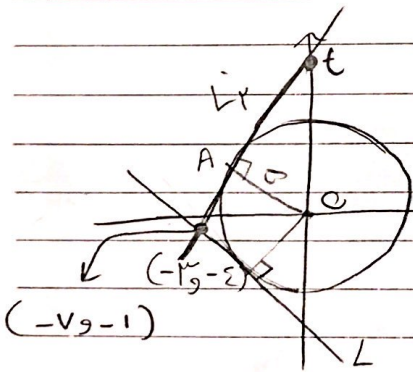
$$\Rightarrow \frac{3}{\sqrt{10}} \times \frac{9\sqrt{10}}{10} = \frac{27}{10} = 1.35$$

$(-\frac{1}{3}, b)$

$(-\frac{1}{3}, a)$

$$m = \sqrt{3} \Rightarrow a - b = \sqrt{3} \Rightarrow a - b = -\frac{\sqrt{3}}{3}$$

$$\frac{3}{35} = \sqrt{\left(a - b\right)^2 + \left(-\frac{1}{3} + \frac{1}{3}\right)^2} = \frac{1}{5} \Rightarrow \frac{3}{35} = \frac{\sqrt{3}}{5}$$



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

$$mL = -\frac{1}{2}$$

$$mLr = \frac{2}{4}$$

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

$$-1x - y = 2$$

$$y = \frac{2}{4}x + t$$

$$\Rightarrow OA = \omega = \frac{10 + 0 + t}{\sqrt{1^2 + 1^2}} = \omega$$

$$t = \frac{r\omega}{3}$$

$$\frac{2}{4}(-1) + \frac{r\omega}{4} = -1 = y$$

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

$$-\frac{1}{2}(-1) + h = -2 \Rightarrow h = -\frac{3}{2}$$

$$2\omega n = -14\omega \Rightarrow n = -7$$

$$\frac{2}{4}n + \frac{r\omega}{4} = \frac{1}{2}n - \frac{r\omega}{4} \Rightarrow 14n + 100 = -9n - 14$$