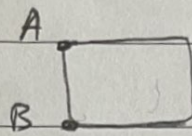


A(-2, k)

B(4, m)

$\alpha = \frac{m-k}{4} = -\frac{1}{4} \rightarrow m-k = -4$



$\overline{AB} = \sqrt{(m-k)^2 + 16} \rightarrow \sqrt{16} = 4 = \text{طول}$
 ضلع مربع

$\text{مساحت مربع} = (4)^2 = 16$

B(3, 1)

C(x, y)

A(-1, 4)

D(-x+2, y+3)

$x-1 = -x+2 \rightarrow x=3 \rightarrow \boxed{x=3}$

$y+1 = y+4 \checkmark$

$\overline{AC} = \overline{BD} \rightarrow \left(\frac{3}{2}\right)^2 + (-3)^2 = \left(\frac{3}{2}+1\right)^2 + (y-4)^2$

$\frac{9}{4} + 9 + 16 + 4y = \frac{25}{4} + y^2 - 8y + 16$

$12y = -28 - 4 + 16 \rightarrow \boxed{y = -1}$

طول = $\sqrt{\left(\frac{3}{2}\right)^2 + 4} = \frac{5}{2}$

عرض = $\sqrt{16 + 9} = 5$

$P = 15$
 متعل

$$1 - (1 - m^2) y = r m x - r$$

-r

$$y = \frac{r m}{1 - m^2} x - \frac{r}{1 - m^2}$$

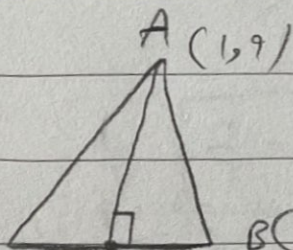
$$\tan \theta_0 = \sqrt{r} = \frac{r m}{1 - m^2} \rightarrow r m = \sqrt{r} - \sqrt{r} m^2$$

$$\sqrt{r} m^2 + r m - \sqrt{r} = 0$$

$$m^2 + r m - r = 0 \rightarrow (m + r)(m - 1) = 0 \rightarrow m = -\frac{r}{\sqrt{r}} = -\sqrt{r}$$

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

$$1 - \frac{\sqrt{r}}{r} + \frac{\sqrt{r}}{1} = \boxed{\frac{r\sqrt{r}}{r}}$$



-r

$$C(4, 11) \quad H \quad B(5, 1) \rightarrow m = \frac{1}{r} = r$$

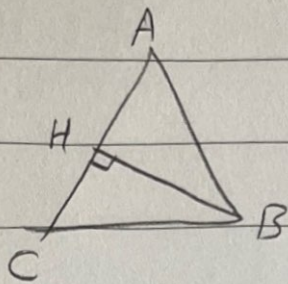
$$y = r x + b \rightarrow r = r(1) - r \rightarrow b = -r$$

$$y = r x - r \rightarrow y - r x + r = 0$$

$$AH = \frac{|9 - r + r|}{\sqrt{r}} = \frac{10}{\sqrt{r}} = \frac{10\sqrt{r}}{r} = \boxed{r\sqrt{r}}$$

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$$BC: \frac{V}{F}x - \frac{19}{F} = y$$

$$AC: \frac{r}{E}x + \frac{1V}{E} = y$$

$$AB: -rx + V = y$$

-د

حل برضورد = نقطه

$$B: \frac{V}{F}x - \frac{19}{F} = -rx + V \rightarrow \frac{11}{F}x = \frac{rV}{F} \rightarrow x = \frac{rV}{11} \text{ و } y = 1$$

$$B = (r, 1)$$

$$\frac{r}{E}x + \frac{1V}{E} = AC$$

$$BH \perp AC = \frac{|1 - \frac{9}{F} - \frac{1V}{E}|}{\sqrt{\frac{9}{14} + 1}} = \frac{\frac{rV}{E}}{\frac{\sqrt{23}}{2}} = \frac{2rV}{\sqrt{23}}$$

$$m = \frac{-4 - 0}{0 + \frac{r}{F}} = -1 \rightarrow y = -1(x + \frac{r}{F}) \rightarrow y = -1x - 4 \quad -9$$

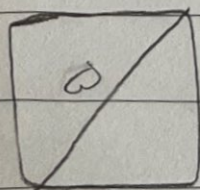
$$-1x - 4 = x \rightarrow 9x = -4 \rightarrow x = -\frac{r}{9} \rightarrow y = -\frac{r}{9}$$

$$d = \sqrt{\frac{r}{9} + \frac{r}{9}} = \frac{r\sqrt{2}}{9}$$

$$\alpha = \frac{1}{r} \rightarrow \alpha^r = 1 \rightarrow \alpha = \pm 1 \quad -v$$

نقطه

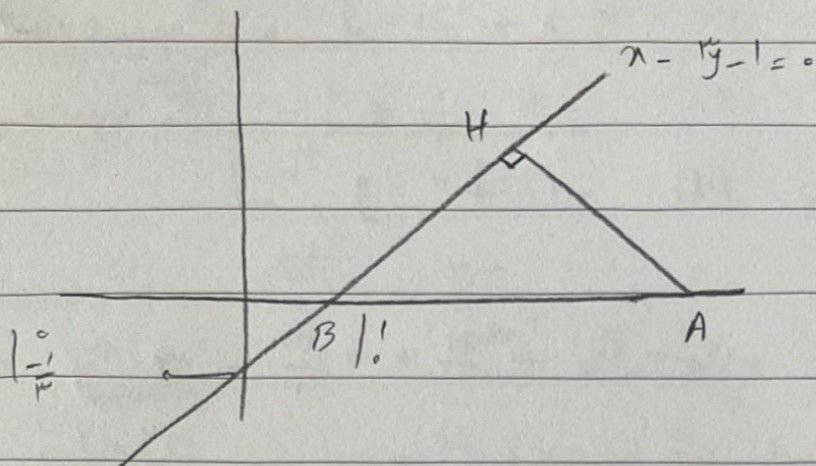
$$r = \frac{|r-1|}{\sqrt{1+1}} = \frac{1}{\sqrt{2}} \rightarrow r\omega - \frac{1}{F} = \frac{E9}{F}$$



$$r = \frac{1}{\sqrt{2}} \rightarrow \omega = \frac{V}{\sqrt{2}} \times \frac{1}{\sqrt{2}} = \frac{V}{2}$$

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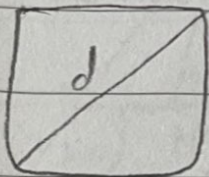


$$AH = \frac{|x - y - 1|}{\sqrt{1+1}} = \frac{\mu}{\sqrt{2}}$$

$$AB^2 = AH^2 + BH^2 \Rightarrow 9 = \left(\frac{\mu}{\sqrt{2}}\right)^2 + BH^2$$

$$\rightarrow BH = \frac{9}{\sqrt{2}}$$

$$S_{\triangle AHB} = \frac{1}{2} \times \frac{\mu}{\sqrt{2}} \times \frac{9}{\sqrt{2}} = \boxed{\frac{9\mu}{4}}$$

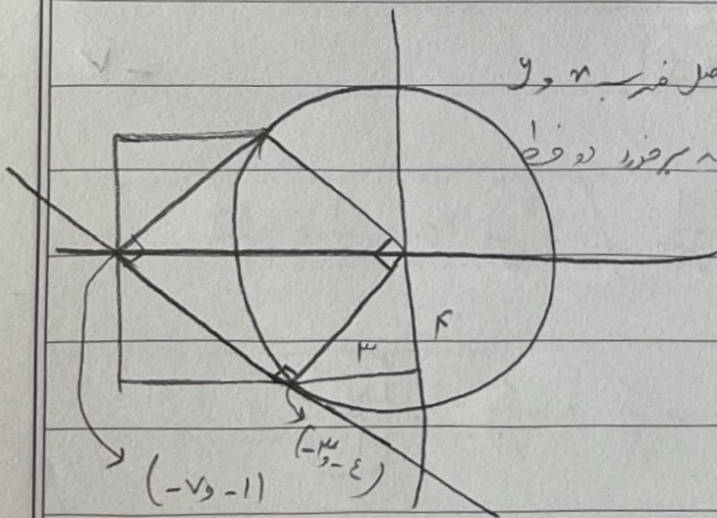


$$\frac{b-a}{-\frac{1}{\mu} + \frac{1}{\mu}} = \sqrt{\mu}$$

$$\hookrightarrow b-a = \frac{\sqrt{\mu}}{4}$$

$$\left| \frac{-1}{\mu} \right| \quad \left| \frac{-1}{\mu} \right|$$

$$d = \sqrt{2} \times \sqrt{(b-a)^2 + \frac{1}{\mu^2}} = \boxed{\frac{\sqrt{\mu}}{\mu}}$$



$$\text{حاصل ضرب } n \text{ و } y = (-\sqrt{3}) \times (-1) = \boxed{\sqrt{3}}$$

نقطه برخورد دو خط

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