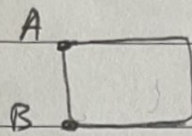


A(-2, k)

B(4, m)

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



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

$\text{مساحت مربع} = (4\sqrt{2})^2 = 32$

B(3, 1)

C(x, y)

A(-1, 4)

D(-x+2, y+3)

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

$y+1 = y+4 \checkmark$

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

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

$12y = -24 - 4 + 16 \rightarrow y = -1$

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

$\text{عرض} = \sqrt{16 + 9} = 5$

$P = 15$

$$1 - (1-m^2)y = rm - \mu$$

$$y = \frac{rm}{1-m^2} - \frac{\mu}{1-m^2}$$

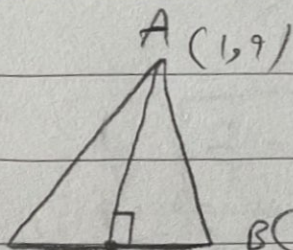
$$\tan \theta_0 = \sqrt{\mu} = \frac{rm}{1-m^2} \rightarrow rm = \sqrt{\mu} - \sqrt{\mu} m^2$$

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

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

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

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

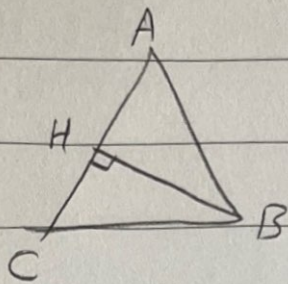


$$C(1, 11) \quad H \quad B(5, 1) \rightarrow m = \frac{1}{\sqrt{\mu}} = \sqrt{\mu}$$

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

$$y = rx - \mu \rightarrow y - rx + \mu = 0$$

$$AH = \frac{|9 - r + \mu|}{\sqrt{a}} = \frac{10}{\sqrt{a}} = \frac{10\sqrt{a}}{a} = \boxed{2\sqrt{a}}$$



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

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

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

-د

تقفه
حل بر خورده = B

(۲)

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

$$B = (r, 1)$$

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

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

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

(۲)

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

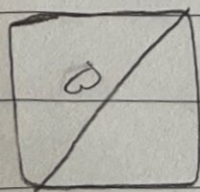
$$d = \sqrt{\frac{r}{9} + \frac{r}{9}} = \frac{r\sqrt{2}}{9}$$

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

(۲) -v

توقفه

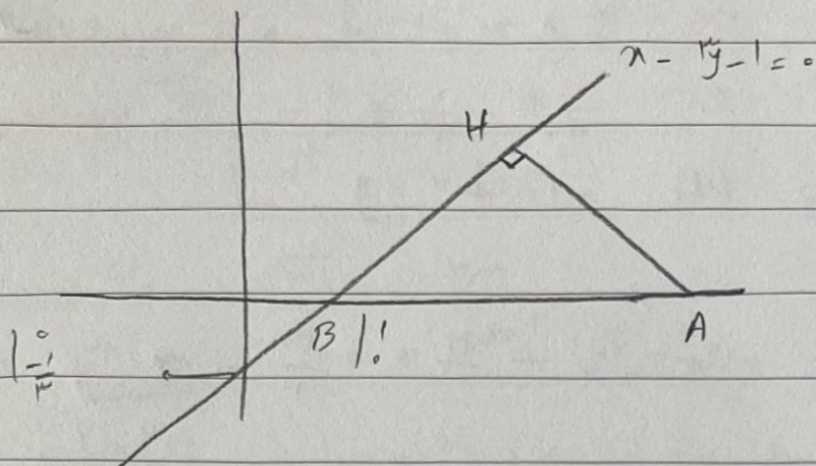
$$r = \frac{|r-1|}{\sqrt{1+1}} = \frac{1}{\sqrt{2}} \rightarrow r\omega - \frac{1}{F} = \frac{E9}{F}$$



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

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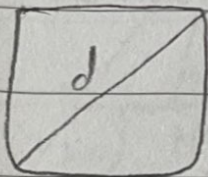


$$AH = \frac{|x - 0 - 1|}{\sqrt{1+1}} = \frac{\mu}{\sqrt{2}}$$

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

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

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

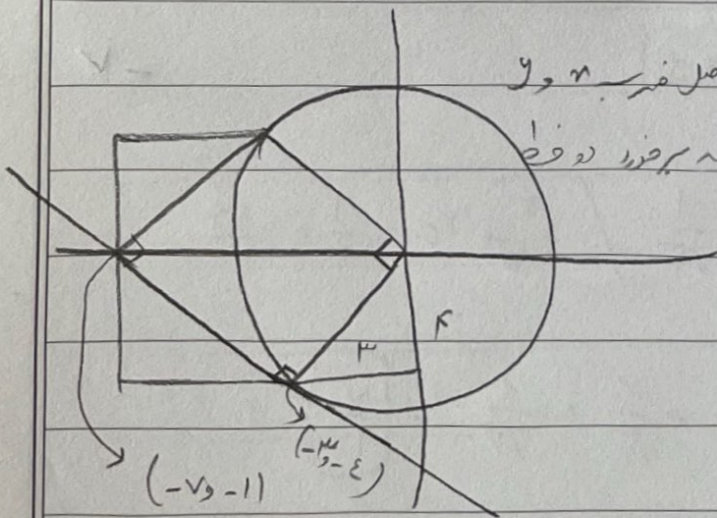


$$\frac{b-a}{-\frac{1}{\mu} + \frac{1}{\mu}} = \sqrt{\mu}$$

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

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

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



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

نقطه برخورد دو خط

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