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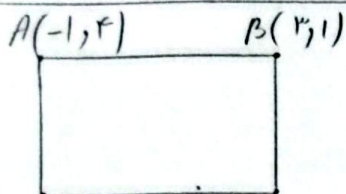
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$$m = \frac{y_2 - y_1}{x_2 - x_1} \Rightarrow \frac{-1}{1} = \frac{m - k}{1 - (-1)} \Rightarrow m - k = -1$$

A(-1, k) B(1, m)

$$a = \sqrt{(1 - (-1))^2 + (m - k)^2} = \sqrt{4 + (-1)^2} = \sqrt{5} \Rightarrow S = \boxed{4\sqrt{5}}$$



$$AB \parallel CD \Rightarrow \frac{1 - 1}{-1 - 1} = \frac{-1}{1 + 1} \Rightarrow 1 + 1 = 1 \Rightarrow 2 = 1$$

$$AB \perp BC \Rightarrow \frac{-1}{1} \times \frac{1 - 1}{1 - 1} = -1 \Rightarrow \frac{1 - 1}{1} = -1 \Rightarrow 1 - 1 = -1 \Rightarrow 0 = -1$$

D(-1, -1) C(1, -1) $\Rightarrow (1, -1)$

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

$$BC = \sqrt{1^2 + 1^2} = \sqrt{2} \quad \text{جواب} \quad \boxed{1}$$

$$1 + (m - 1)y - 1 = 0 \quad \tan \theta = \sqrt{3} \quad \text{الميل: } \frac{-1 - m}{m - 1} = \sqrt{3}$$

$$\sqrt{3}m - \sqrt{3} = -1 - m \Rightarrow \sqrt{3}m + m - \sqrt{3} = -1 \Rightarrow \Delta: 1 - 1(\sqrt{3})(-\sqrt{3}) = 1 + 3 = 4$$

$$\frac{-1 + \sqrt{4}}{\sqrt{3}} = \frac{1}{\sqrt{3}} \times \frac{\sqrt{3}}{\sqrt{3}} = \frac{\sqrt{3}}{3} \quad \frac{\sqrt{3}}{3} - \sqrt{3} = \frac{\sqrt{3} - 3\sqrt{3}}{3} = \frac{-2\sqrt{3}}{3}$$

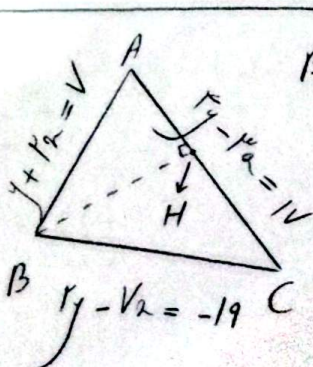
$$\frac{-1 - \sqrt{4}}{\sqrt{3}} = \frac{-2}{\sqrt{3}} \times \frac{\sqrt{3}}{\sqrt{3}} = \frac{-2\sqrt{3}}{3} = -\sqrt{3}$$



$$AH = ? \quad m_{BC} = \frac{11 - 1}{1 - 1} = 1 \Rightarrow y - 1 = 1(x - 1)$$

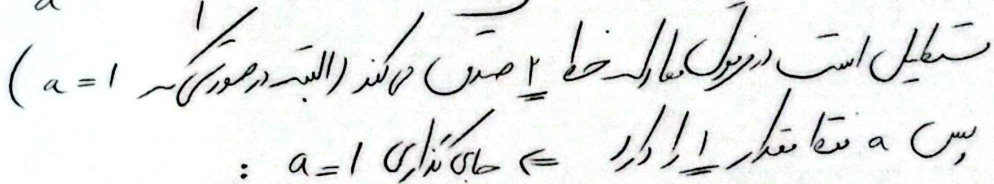
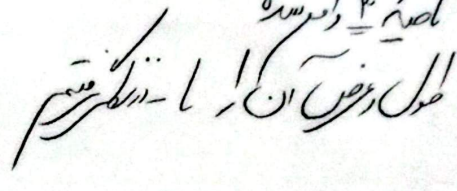
$$\Rightarrow y - 1 + 1 = 0 \Rightarrow y = 0$$

$$B(1, 1) H C(1, 1) \quad BC \perp AH: \frac{|1 - 1 + 1|}{\sqrt{(1)^2 + (1)^2}} = \frac{1}{\sqrt{2}} \times \frac{\sqrt{2}}{\sqrt{2}} = \frac{1}{\sqrt{2}} = \boxed{\frac{\sqrt{2}}{2}}$$



$$\begin{cases} y + 1 = 1 \\ 1y - 1 = -1 \end{cases} \Rightarrow \begin{cases} -1y - 1 = -1 \\ 1y - 1 = -1 \end{cases} \Rightarrow \begin{cases} -1y - 1 = -1 \\ -1y - 1 = -1 \end{cases} \Rightarrow \begin{cases} -1y = 0 \\ -1y = 0 \end{cases} \Rightarrow \begin{cases} y = 0 \\ y = 0 \end{cases}$$

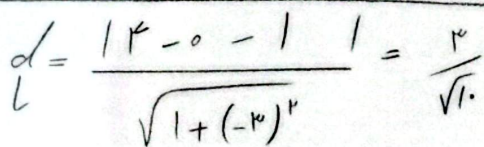
$$AC: \frac{|1 - 1 - 1|}{\sqrt{1^2 + 1^2}} = \frac{1}{\sqrt{2}} = \boxed{\frac{\sqrt{2}}{2}}$$



② $I_{1/2} : y = x + 1$

(5) $\int \frac{1}{\sqrt{1+x^2}} dx = \ln|x + \sqrt{1+x^2}| + C$

$$\left(\frac{v}{r}\right)^2 + \left(\frac{1}{\sqrt{r}}\right)^2 = \omega^2 \Rightarrow \frac{v}{\sqrt{r}} = \frac{1}{\sqrt{r}} \times \frac{v}{\sqrt{r}} = \left[\frac{v}{r}\right]$$



$$P = \frac{1}{r} \times \frac{r}{\sqrt{1.0}} \times \frac{r}{\sqrt{1.0}} = \left[\frac{9}{r_0} \right]$$

$$AB^V = AH^V + BH^V \rightarrow v^V = \left[\frac{v}{w} \right]^V + BH^V \rightarrow BH = \frac{1}{w}$$

$$S = \frac{\mu}{\sqrt{1.}} \times \frac{q}{\sqrt{1.}} \times \frac{1}{r} = \frac{\mu V}{r.}$$

در فتنه و کجی احسان و انعام ملت است

$$AB = \left(-\frac{1}{\mu} + \frac{1}{\mu}, b-a\right) \rightarrow \left(\frac{1}{\mu}, b-a\right) \quad \frac{b-a}{\frac{1}{\mu}} = \sqrt{3} \Rightarrow a-b = \frac{\sqrt{3}}{\mu}$$

$$|AB| = \sqrt{\left(\frac{1}{\mu}\right)^2 + \underbrace{(b-a)^2}_{\frac{3}{\mu^2}}} = \sqrt{\frac{1}{\mu^2} + \frac{3}{\mu^2}} = \frac{1}{\mu} \quad \text{با } d: \frac{1}{\mu} \sqrt{3} = \frac{\sqrt{3}}{\mu} \quad (9)$$

$$(0,0) \quad OP = \sqrt{(-3)^2 + (-4)^2} = 5 \quad \text{شیب خط: } \frac{-4}{-3} = \frac{4}{3} \rightarrow m = \frac{-4}{3} \quad (10)$$

$$m_{\perp} = \frac{3}{4} \quad \text{فاصله مرکز از خط: } 5 = \frac{|b|}{\sqrt{\left(\frac{4}{3}\right)^2 + 1}} \Rightarrow |b| = \frac{25}{3} \quad (2)$$

این استیکر را در صفحه ۲ بابت ۲ متغیر و شیب پس بابت ۱ بابت ۱

$$\left. \begin{aligned} y &= \frac{4}{3}x + b \\ y + 4 &= \frac{4}{3}(x + 3) \end{aligned} \right\} \Rightarrow \text{نقطه برخورد خط } (-7, -1) \quad \text{معادله خط}$$

$$\text{محض } x \text{ طول} = -7x - 1 = 7$$