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مسئله عراقی زاده
سم رب الذي خلق المجدى

$$\frac{m-k}{k+1} = -\frac{1}{2} \Rightarrow k-m=1$$

$$\text{مربع مربع} : \sqrt{\frac{(k+1)^2}{4} + \frac{(m-k)^2}{4}} = \sqrt{45} \Rightarrow S = (\sqrt{45})^2 = 45$$

$$x-1 = -1-x+1 \Rightarrow 2x=1 \Rightarrow x=1/2$$

$$C(1, 5, y)$$

$$|AB| = 5 = |CD| = \sqrt{19+9}$$

$$|BC| = |AD| = \sqrt{(1-5)^2 + (1+y)^2} = 5/2$$

$$P = 5 + 5/2 = 15/2 \Rightarrow \text{مساحت} = 18$$

$$m_{AB} = m_{CD} = -\frac{1}{m_{BC}}$$

$$\frac{k}{2} = \frac{y-1}{1-5} \Rightarrow y = -1$$

$$\frac{km}{1-m^2} = \sqrt{3} \Rightarrow \sqrt{3}m^2 + \sqrt{3} - km = 0$$

$$\frac{\sqrt{3}}{1} + \frac{km}{1} = \frac{\sqrt{3}}{1}$$

$$\tan \alpha = \sqrt{3}$$

$$m = -\frac{1}{\sqrt{3}}$$

$$m_{BC} = \frac{1}{k} = 2$$

$$m_B: y = 2x - 3 \Rightarrow 2x - y - 3 = 0$$

$$\text{فاصله A از خط BC} = AM = \frac{|2-9-14|}{\sqrt{5}} = 2\sqrt{5}$$

$$\begin{cases} 7x + 2y = -19 \\ 2x + y = 1 \end{cases} \Rightarrow \begin{cases} y = 1 \\ x = 3 \end{cases} (3, 1)$$

$$BM \rightarrow \text{فاصله B از AC} = \frac{|4-9-14|}{5} = \frac{19}{5} = 3.8$$

$$y = -18x - 6$$

$$y + 18x + 4 = 0$$

مردی بسیار زودل و سوسه $\Leftrightarrow$ فاصله H از دو محور مختصات برابر است

$$H(x, y)$$

$$-18x - 6 = x \Rightarrow x = -\frac{2}{19}$$

$$H(-\frac{2}{19}, -\frac{2}{19})$$

$$\text{فاصله} = \frac{2}{3} \sqrt{13}$$

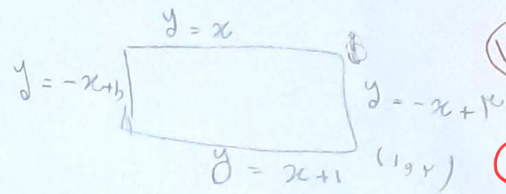
$$\frac{1}{a} = \frac{a}{1} \Rightarrow a = \pm 1$$

$$y = -x - 2$$

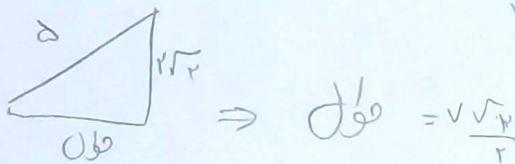
$$y = -x + 1$$

رأس در هج کلام

مردی سوسه

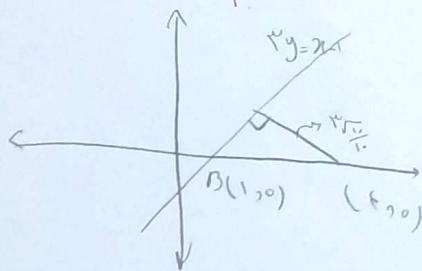


$$\text{فاصله نقطه از فاصله} = \frac{|2-1|}{\sqrt{2}} = \frac{\sqrt{2}}{2}$$



$$\Rightarrow \text{فاصله} = \frac{2\sqrt{2}}{2}$$

$$S = \frac{V}{T} = \frac{3}{10}$$



$$AC = \text{فاصله A به BC}$$

$$= \frac{|4-1|}{\sqrt{10}} = \frac{3\sqrt{10}}{10}$$

$$B = \text{فاصله از مبدأ} \Rightarrow B(1,0)$$

$$BC = \sqrt{9 - \frac{9}{10}} = \frac{9\sqrt{10}}{10}$$

$$AB = 3$$

$$S = \frac{1}{2} \times \frac{3\sqrt{10}}{10} \times \frac{9\sqrt{10}}{10} = \frac{27}{20}$$

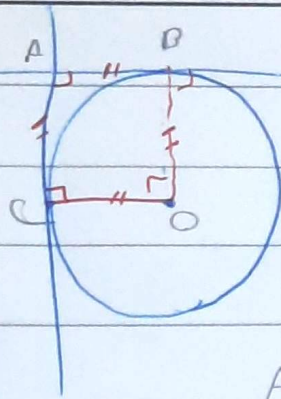
$$b-a = \sqrt{\frac{3}{4}}$$

$$AB = \sqrt{\frac{1}{16} + (b-a)^2} = \sqrt{\frac{1}{16} + \frac{3}{4}} = \sqrt{\frac{1}{4}} = \frac{1}{2}$$

$$S = \frac{1}{2}$$

$$\text{فاصله} = \frac{1}{2} \times \sqrt{2} \Rightarrow \frac{\sqrt{2}}{2}$$

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$$V = W$$

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رو عباس و مسعود از طرفه با هم جرایده

$AB = AC$
 $OB = OC = r$
 $B = 40^\circ$

$\left. \begin{array}{l} AB = AC \\ OB = OC = r \\ B = 40^\circ \end{array} \right\} \begin{array}{l} AB \text{ و } OC \\ \text{مربعیات} \end{array} \Rightarrow AB = AC = OB = OC = r = 0$

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$$\left. \begin{aligned} (x_{A+V})^T + (y_{A+V})^T &= 10 \\ (x_{A-0})^T + (y_{A-0})^T &= 0 \end{aligned} \right\} \Rightarrow \begin{aligned} x &= -V \\ y &= -1 \end{aligned}$$