

بسم رب الذي خلق العرش

١٨,٥

نام و نام خانوادگی: ستایش عیسی زاده باسجنامه تشریحی تکلیف شماره ١٤ کلاس: دختر

$A(4, -4) \quad B(2, 1)$

شیب $m_{AB} = \frac{1 - (-4)}{2 - 4} = \frac{1+4}{-2} = -\frac{5}{2}$

نقطه $m = (4, 1)$

$y = \frac{1}{2}x + b \Rightarrow -\frac{5}{2} = \frac{4}{2} + b$

$y = \frac{1}{2}x + \frac{13}{2}$

$b = -\frac{13}{2}$

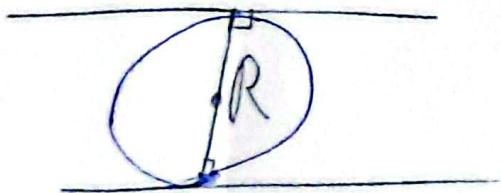
$|CB| = \sqrt{(1-4)^2 + (1-2)^2} = 5$

معادله خط BC : $y = -\frac{4}{3}x + \frac{5}{3}$

$\Rightarrow 4x + 3y - 5 = 0$

فاصله A تا خط BC : $\Rightarrow \frac{|4 \cdot 4 + 3 \cdot (-4) - 5|}{\sqrt{4^2 + 3^2}} = \frac{15}{5} = 3$

$5 - 2 = 3$



خط R فاصله از خط موازی مماس

$4y - 2x - 14 = 0$

$4y - 2x - 2 = 0$

$R = \frac{|4 \cdot 1 - 2 \cdot 4 - 14|}{\sqrt{4^2 + 2^2}} = \frac{14}{\sqrt{20}} = \frac{7\sqrt{5}}{5}$

$S = \pi R^2 = \pi \left(\frac{7\sqrt{5}}{5}\right)^2 = \frac{49\pi}{5}$

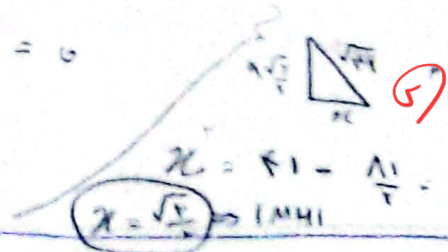
پایه

خط AB : $\left(\frac{4-2}{2}, \frac{-4+1}{2}\right) \Rightarrow (1, -\frac{3}{2})$

$|MC| = \sqrt{5}$

معادله خط AB : $y = -x + 5 \quad y + x - 5 = 0$

$|CH| = \frac{|1 - 3 - 5|}{\sqrt{2}} = \frac{7\sqrt{2}}{2}$



$x = 4 - \frac{11}{2} = \frac{7}{2}$

$\frac{12}{2} - \frac{11}{2} = \frac{1}{2}$

شیب هاف: معادله خط AB $y = -x + 5$ $y + x - 5 = 0$

$\left(\frac{3m-1}{m-2}\right) \left(\frac{m+1}{2m-3}\right) = -1$

$\frac{3m-1}{m-2} = \frac{4-2m}{m+1}$

$3m - 1 = 4 - 2m \Rightarrow 5m = 5 \Rightarrow m = 1$

$3m^2 + 14m - 20 = 3m^2 + 3m - 1$

$5m^2 - 15m + 19 = 0 \Rightarrow \Delta < 0$

هیچ مقدار m

Scanned by TapScanner

Scanned by TapScanner

$$A(-1, 1)$$

$$-\frac{1}{r}x + \frac{r}{r} = rx - 1 \Rightarrow \frac{1}{r}x = \frac{1-r}{r} \quad \text{مثلاً : } AC, AB \text{ و } r \leftarrow A$$

$$-\frac{1}{r}x + \frac{r}{r} = -x + r \Rightarrow \frac{1}{r}x = \frac{r}{r} \Rightarrow x = r \Rightarrow B(r, -1)$$

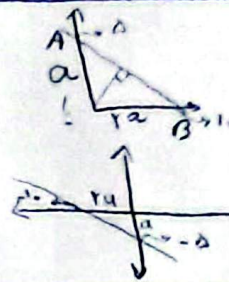
$$rx - 1 = -x + r \Rightarrow x = \frac{r}{r} \quad \text{مثلاً : } BC, AC \leftarrow C$$

$$BC \text{ و } M : \left(\frac{1}{r}, \frac{r}{r} \right) \Rightarrow AM = \sqrt{\left(\frac{1}{r} \right)^2 + \left(\frac{r}{r} \right)^2} = \frac{\sqrt{1+r^2}}{r}$$

$$BC \text{ و } A \text{ و } B : \frac{|1-r-1|}{\sqrt{r}} = \sqrt{r}$$

$$\frac{|1-0-1|}{\sqrt{r}} = \sqrt{r} \Rightarrow b = \pm \sqrt{r}$$

$$a \sqrt{1+r^2} \quad B \text{ و } A \text{ فاصله}$$



$$y = -\frac{1}{r}x + b$$

$$rx + y - rb = 0$$

$$\left(\frac{r}{r}, 0 \right) \quad \left(-\frac{r}{r}, 0 \right) \quad \text{بر خود محور و خط}$$

$$S_D = \left| \frac{m^2 - m + r}{r(m-1)} \right| \sqrt{r} \frac{1}{r} = \frac{a}{r}$$

$$\hookrightarrow m = r, \quad m^2 + r_{m-1} = 0$$

$$\frac{r}{r} = -1$$

در تعداد حواشی و کلمات به قدری که بتوانیم به عنوان حواشی

$$\left(\frac{r}{r}, 0 \right) \xrightarrow{\text{تبدیل}} \left(\frac{r}{r}, -r \right)$$

$$\left(0, -r \right) \xrightarrow{\text{تبدیل}} \left(r, -1 \right)$$

$$\begin{pmatrix} 0 \\ 0 \end{pmatrix} = rx - 1$$

$$y = -x + b$$

$$y = -x + b \Rightarrow y = -x + r$$

$$-x + r = x + r \Rightarrow x = -1 \quad (-1, r)$$

$$\text{مثلاً : } \text{بیان تفاوت و کلمات} \Rightarrow (-1, r)$$

$$rx - 1 = -x + r \Rightarrow x = -1$$

Scanned by TapScanner

Scanned by TapScanner