

بسم رب الذي خلق العبد

نام و نام خانوادگی: ستایش عقیقی زاده
 با شماره تشریحی تکلیف شماره ۱۴ کلاس: دختر

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

$$m_{AB} = \frac{1 - (-4)}{2 - (-4)} = \frac{1+4}{-2-4} = -\frac{5}{6}$$

$$m = (2, 1)$$

$$y = \frac{1}{2}x + b \Rightarrow -\frac{5}{6} = \frac{1}{2} + b$$

$$y = \frac{1}{2}x + \frac{13}{6}$$

$$b = -\frac{13}{6}$$

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

$$BC \perp AB: y = -\frac{6}{5}x + \frac{13}{5}$$

$$6x + 5y - 13 = 0$$

$$A \rightarrow B \text{ فاصله} \Rightarrow \frac{|6 \cdot (-4) + 5 \cdot (-4) - 13|}{\sqrt{6^2 + 5^2}} = \frac{55}{\sqrt{61}} = \frac{55}{\sqrt{61}}$$

$$5 - \frac{55}{\sqrt{61}} = \frac{5}{\sqrt{61}}$$

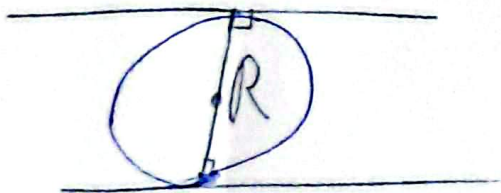
قل R فاصله از خط موازی مماس

$$6y - 2x - 13 = 0$$

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$$R = \frac{|6 \cdot 1 - 2 \cdot 2 - 13|}{\sqrt{6^2 + 2^2}} = \frac{11}{\sqrt{38}}$$

$$S = \pi R^2 = \pi \left(\frac{11}{\sqrt{38}} \right)^2 = \frac{121}{19} \pi$$

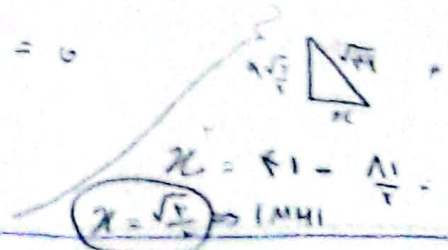


با معادله

$$A(-4, -4) \quad B\left(\frac{13}{6}, \frac{1}{2}\right) \Rightarrow (2, 1) \quad |MC| = \sqrt{5}$$

$$AB \text{ معادله: } y = -x + 5 \quad y + x - 5 = 0$$

$$|CH| = \frac{|1 - 2 - 5|}{\sqrt{2}} = \frac{6}{\sqrt{2}}$$



$$x = 4 - \frac{11}{2} = -\frac{3}{2}$$

$$x = \frac{\sqrt{2}}{2} \Rightarrow |MH|$$

نیم هاف (محل) سه طرف بیش از ۱ - ۱ = ۱
 - ۱ = ۱

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

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

$$(m-2)(m+1) = (4-2m)(m-3)$$

$$m^2 - m - 2 = 4m - 12 - 2m^2 + 6m$$

$$3m^2 - 7m - 10 = 0 \Rightarrow \Delta < 0$$

هیچ مقدار m

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$$A(-1, 1)$$

$$-\frac{1}{\sqrt{2}}x + \frac{1}{\sqrt{2}} = 2x - 1 \Rightarrow \frac{1}{\sqrt{2}}x = \frac{1}{\sqrt{2}} \Rightarrow x = 1$$

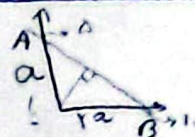
$$-\frac{1}{\sqrt{2}}x + \frac{1}{\sqrt{2}} = -x + 1 \Rightarrow \frac{1}{\sqrt{2}}x = \frac{1}{\sqrt{2}} \Rightarrow x = 1$$

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

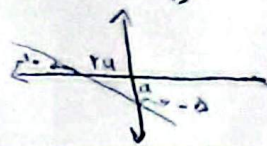
$$BC: A \text{ د لاس: } \frac{|1 \cdot 1 - 1 \cdot 1|}{\sqrt{1^2 + 1^2}} = \sqrt{2}$$

$$\frac{|1 \cdot 0 - 0 \cdot 1|}{\sqrt{1^2 + 1^2}} = \sqrt{2} \Rightarrow b = \pm \sqrt{2}$$

$$A \text{ د لاس: } \frac{|1 \cdot 1 - 1 \cdot 1|}{\sqrt{1^2 + 1^2}} = \sqrt{2}$$



$$y = -\frac{1}{\sqrt{2}}x + b$$



$$(1, 0) \quad (0, 1)$$

د تقارر خوارقش څرګند کړئ. بیا د تقارر څرګند کړئ. د تقارر څرګند کړئ.

$$(1, 0) \xrightarrow{\text{تقارر}} (0, -1)$$

$$(0, -1) \xrightarrow{\text{تقارر}} (1, -2)$$

$$y = 2x - 1$$

$$y = -x + b$$

$$y = -x + 3$$

$$-x + 3 = x + 1 \Rightarrow x = 1$$

$$(1, 2)$$

$$2x - 1 = 1 + 2 = 3$$

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