

$$(1, 3) \text{ نقطہ } (2, 1) \text{ سے } (4, -2)$$

-1

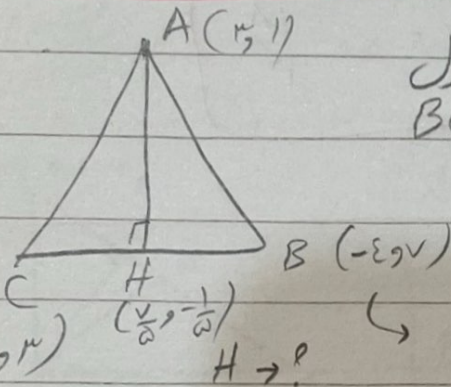
$$m = \frac{1^2}{-2} = -\frac{1}{2} \rightarrow m' = \frac{1}{\frac{1}{2}} \rightarrow y = m'n + b$$

$$1 = \frac{1}{2}(2) + b$$

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

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

توڑ دیتے



$$BC = \sqrt{9 + 19} = 5$$

-2

$$H \rightarrow ?$$

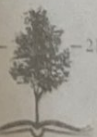
$$m = \frac{1}{-3} \rightarrow m' = \frac{3}{1} \rightarrow y = \frac{3}{1}x + \frac{5}{3}$$

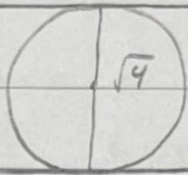
$$y = \frac{3}{1}(2) + b = 1 \rightarrow b = -\frac{5}{3} \rightarrow y = \frac{3}{1}x - \frac{5}{3}$$

$$\frac{3}{1}x - \frac{5}{3} = -\frac{1}{3}x + \frac{5}{3} \rightarrow \frac{4}{3}x = \frac{10}{3} \rightarrow x = \frac{5}{2}, y = -\frac{1}{2}$$

$$H\left(\frac{5}{2}, -\frac{1}{2}\right) \rightarrow \text{طول } AH = \sqrt{\frac{9}{4} + \frac{1}{4}} = \frac{5}{2} = 2.5$$

$$\frac{BC \text{ طول}}{AH \text{ طول}} = \frac{5}{2.5} = 2$$





$$r y = a x + r \rightarrow y = \frac{a}{r} x + \frac{1}{r}$$

-۳

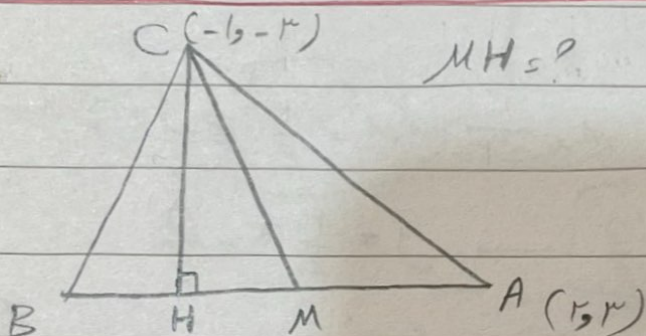
$$r y = x + r \rightarrow y = \frac{1}{r} x + \frac{r}{r}$$

$$a = r$$

فاصله مرکز دایره تا خط مماس = $\frac{|\frac{r}{r} - \frac{1}{r}|}{\sqrt{1 + \frac{r^2}{r^2}}} = \frac{r}{\frac{\sqrt{4}}{r}} = \frac{4\sqrt{4}}{4} = \sqrt{4} \rightarrow$ قطر دایره = $\frac{\sqrt{4}}{r}$

شعاع دایره = $\frac{\sqrt{4}}{r}$

مساحت دایره = $\pi r^2 = \pi \times \left(\frac{\sqrt{4}}{r}\right)^2 \rightarrow \frac{4}{r^2} \pi \approx \frac{11}{r^2}$



MH = ?

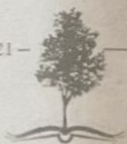
-۴

(C) $(-\frac{1}{r}, -\frac{r}{r}) \rightarrow (r, r)$

H? $\rightarrow m = \frac{r}{-r} = -1 \rightarrow m' = 1 \rightarrow y = x - r$ $\left. \begin{array}{l} x - r = -x + 5 \\ x = \frac{r}{2} \text{ و } y = \frac{r}{2} \end{array} \right\}$

$\hookrightarrow y = -x + 5$

جواب
MH = $\sqrt{\frac{1}{r^2} + \frac{1}{r^2}} = \frac{1}{\sqrt{r}} = \frac{\sqrt{r}}{r}$



Genobar

$$(m+1)x + 1 = (r_m - r)y \rightarrow y = \frac{m+1}{r_m - r} x + \frac{1}{r_m - r} \quad - \omega$$

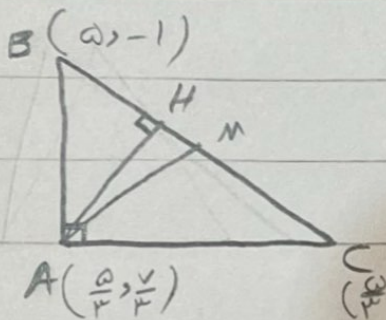
$$(r_m - r)x - V = (m - \omega)y \rightarrow y = \frac{r_m - r}{m - \omega} x - \frac{V}{m - \omega}$$

$$\frac{r_m - r}{m - \omega} = \frac{r - r_m}{m+1}$$

$$r_m^2 + m - r = -r_m^2 + 16m - r$$

$$\omega m^2 - 16m + 17 = 0 \rightarrow \Delta < 0$$

$$\rightarrow m = \emptyset$$



$$\begin{cases} AB = y = -\frac{1}{r}x + \frac{r}{r} \\ AC = y = r_m - 1 \\ BC = y = -x + 1 \end{cases}$$

$\frac{AM}{AH} = ?$

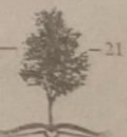
$$A \rightarrow AB = AC \rightarrow -\frac{1}{r}x + \frac{r}{r} = r_m - 1 \rightarrow \frac{r}{r}x = \omega$$

$$x = \frac{\omega}{r}, y = \frac{r}{r}$$

$$B \rightarrow AB = BC \rightarrow -\frac{1}{r}x + \frac{r}{r} = -x + 1$$

$$\frac{1}{r}x = \frac{\omega}{r} \rightarrow x = \omega, y = -1$$

$$C \rightarrow BC = AC \rightarrow r_m - 1 = -x + 1 \rightarrow r_m = \omega \rightarrow x = \frac{\omega}{r}, y = \frac{r}{r}$$



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

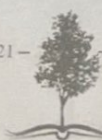
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$$(0, r_0) (x, y) \rightarrow \sqrt{x^2 + y^2} = \sqrt{r_0^2}$$

$$x^2 + y^2 = r_0^2$$

$$mx + B = y \rightarrow B = \frac{1}{r} A$$

$$y = B$$



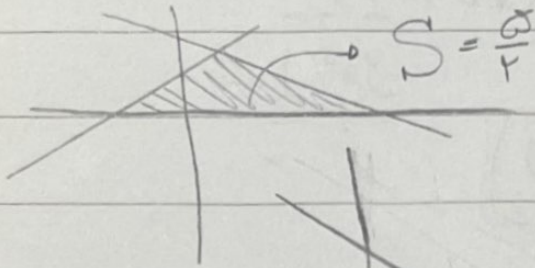
Senobar

$$y + mx = x + r \rightarrow y = (1-m)x + r$$

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$$my = \varepsilon x + rm \rightarrow y = \frac{\varepsilon}{m}x + r$$

$$\frac{\varepsilon}{m}x + r = (1-m)x + r$$

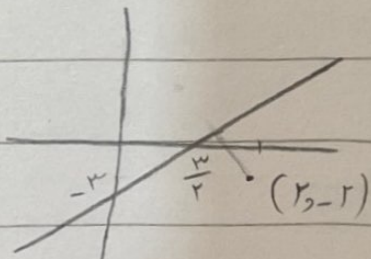


$$r = m - m' \rightarrow m' - m + \varepsilon = 0 \rightarrow \Delta C$$

بهم برقرار نماند!

$$y = rx - r \quad M = (r_2 - r)$$

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$$m = m' = r$$

$$y = rx + b$$

$$\text{مساحت} \rightarrow \frac{|r - r + r|}{\sqrt{1 + r^2}} = \frac{\varepsilon \sqrt{a}}{a}$$



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 $(1, 2)$ $A'(a, b)$

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$$(y = x + 2)$$

$$\rightarrow x + 2 = -x + 3$$

$$m' = -1 \rightarrow -x + 3$$

$$2x = -2 \rightarrow x = -1$$

$$(1, 4)$$

$$(1, 2)$$

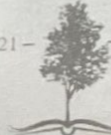
$$\rightarrow (1, 10)$$

$$y = 9$$

$$a = 1$$

$$\rightarrow 2b - a = 19$$

$$b = 10$$



Senobar