

9,75

$$(1, 2) \quad (4, -2) \quad \text{نقطہ دو}$$

-1

(3)

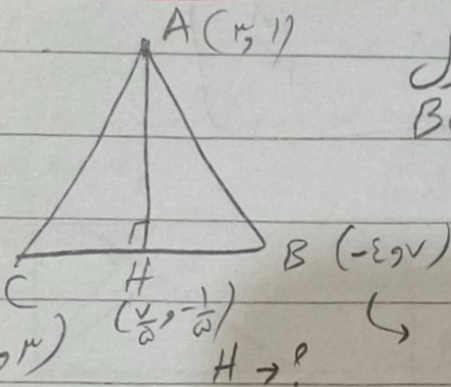
$$m = \frac{14}{-2} = -7 \quad \boxed{m' = \frac{1}{7}} \rightarrow y = m'n + b$$

$$1 = \frac{1}{7}(3) + b$$

$$\boxed{b = \frac{14}{7}}$$

$$\boxed{y = \frac{1}{7}x + \frac{14}{7}}$$

عوارض



$$\text{طول } BC = \sqrt{9 + 14} = \boxed{5}$$

1,75

$$m = \frac{14}{-3} \rightarrow m' = \frac{3}{14} \rightarrow y = \frac{3}{14}x + \frac{5}{2}$$

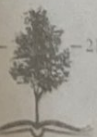
$$y = \frac{3}{14}(3) + b = 1 \rightarrow \boxed{b = -\frac{5}{14}} \rightarrow y = \frac{3}{14}x - \frac{5}{14}$$

$$\frac{3}{14}x - \frac{5}{14} = -\frac{1}{3}x + \frac{5}{3} \rightarrow \frac{10}{14}x = \frac{35}{14} \rightarrow x = \frac{7}{2}, y = -\frac{1}{2}$$

$$H\left(\frac{7}{2}, -\frac{1}{2}\right) \rightarrow \text{طول } AH = \sqrt{\frac{94}{100} + \frac{34}{100}} = \frac{10}{10} = \boxed{1}$$

$$\frac{BC \text{ طول}}{AH \text{ طول}} = \frac{5}{1} = \boxed{5}$$

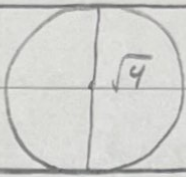
$$\text{ارتفاع} = 5 - 2 = 3$$



$$y = u = v \rightarrow a = 2$$

$$d = \frac{4}{\sqrt{5}} \rightarrow \text{شعاع} = \frac{r}{\sqrt{5}}$$

$$S = \pi \times \frac{4}{5} = \frac{4}{5} \pi$$



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

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

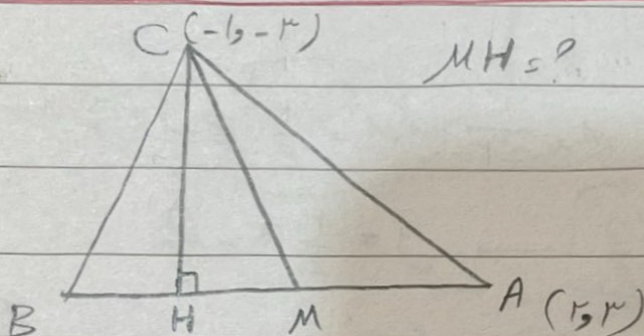
$$a = 2$$

۱۵

$$\text{فاصله مرکز دایره تا خط} = \frac{\left| \frac{v}{r} - \frac{1}{r} \right|}{\sqrt{1 + \frac{1}{r^2}}} = \frac{r}{\frac{\sqrt{4}}{r}} = \frac{4\sqrt{4}}{4} = \sqrt{4} \rightarrow \text{مقدار دایره}$$

$$\text{شعاع دایره} = \frac{\sqrt{4}}{r}$$

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



$$(E, 1) \quad \left(\frac{v}{r}, \frac{r}{r} \right) \rightarrow (r, r)$$

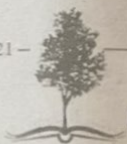
$$H? \rightarrow m = \frac{r}{-r} = -1 \rightarrow m' = 1 \rightarrow y = x - 2$$

$$\hookrightarrow y = -x + 5$$

$$\left. \begin{array}{l} x - 2 = -x + 5 \\ x = \frac{v}{r} \end{array} \right\} y = \frac{r}{r}$$

$$Jeb$$

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



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

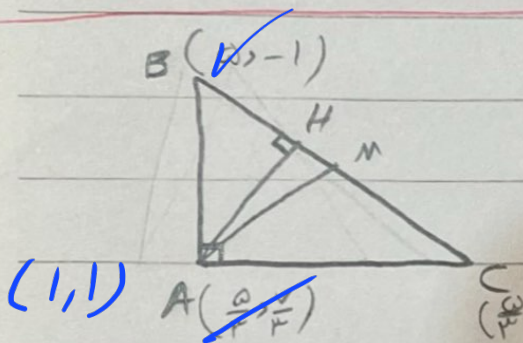
$$(rm-r)x - V = (m-\omega)y \rightarrow y = \frac{rm-r}{m-\omega}x - \frac{V}{m-\omega} \quad (5)$$

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

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

$$\omega m^2 - 16m + 11 = 0 \rightarrow \Delta <$$

$$\rightarrow m = \emptyset$$



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

$$\omega$$

$$AM \text{ is? } A \rightarrow AB = AC \rightarrow -\frac{1}{r}x + \frac{r}{r} = rx - 1 \rightarrow \frac{r}{r}x = \frac{\omega}{r}$$

$$AH$$

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

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

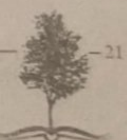
$$\frac{1}{r}x = \frac{\omega}{r} \rightarrow x = \omega, y = -1$$

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

$$M\left(\frac{1}{r}, \frac{r}{r}\right)$$

$$AM = \frac{\omega}{r}$$

$$AH = r$$



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

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

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

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

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

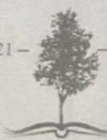
$$y = B$$

$$m = -\frac{1}{r} \rightarrow ry + x - r_0 = 0$$

$$\frac{|r_0|}{\sqrt{1}} = \sqrt{r_0^2} \rightarrow C = \pm r_0$$

$$C = r_0 \rightarrow AB = \sqrt{r_0^2}$$

$$C = -r_0 \rightarrow AB = \sqrt{r_0^2}$$

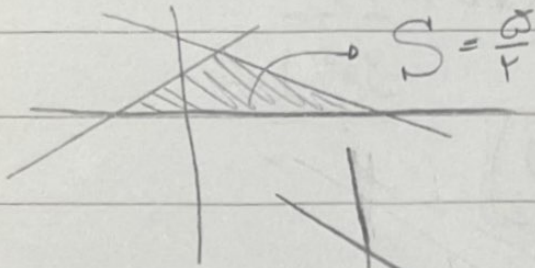


$$y + m x = x + r \rightarrow y = (1-m)x + r$$

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

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



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

با هم برقرار نماند!

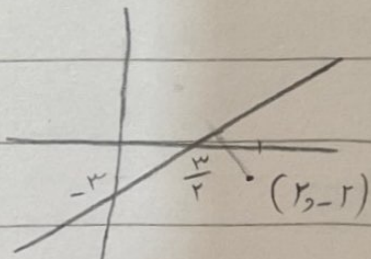
$$S_D = \left| \frac{m' - m + r}{r(m-1)} \right| \sqrt{\frac{r}{r}} = \frac{\Delta}{r}$$

$$\hookrightarrow m = r, \quad m' + r m - 1 = 0$$

$$r_{x-1} = -r \quad \frac{c}{a} = -1$$

$$y = r x - r \quad M = (r, -r)$$

-9



$$m = m' = r$$

$$y = r x + b$$

$$\frac{\alpha + r}{r} = r \rightarrow \alpha = r$$

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

$$\left. \begin{array}{l} \frac{\alpha + r}{r} = r \rightarrow \alpha = r \\ \frac{\beta - r}{r} = -r \rightarrow \beta = -1 \end{array} \right\} \rightarrow m d' = r$$

$$y = r x - r$$

$$\rightarrow \frac{|r - r + r|}{\sqrt{1 + r}} = \frac{\varepsilon \sqrt{a}}{a}$$

Senobar



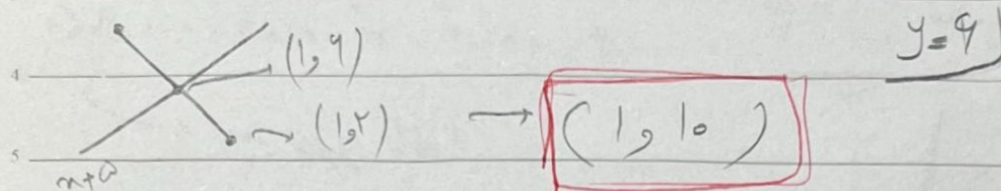
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Page : ()

1. $(1, 2)$ $A'(a, b)$ -10

2. $(y = x + 2)$ $\rightarrow x + 2 = -x + 4$ 9
 $\rightarrow m' = -1 \rightarrow -x + 4$ $2x = -2 \rightarrow x = -1$



4. $a = 1 \rightarrow 2b - a = 19$ $\begin{cases} y = x + 2 \\ y = -x + 4 \end{cases} \rightarrow H(-1, 4)$
 $b = 10$ $\alpha = -1, \beta = 4 \rightarrow 2b - a = 19$