

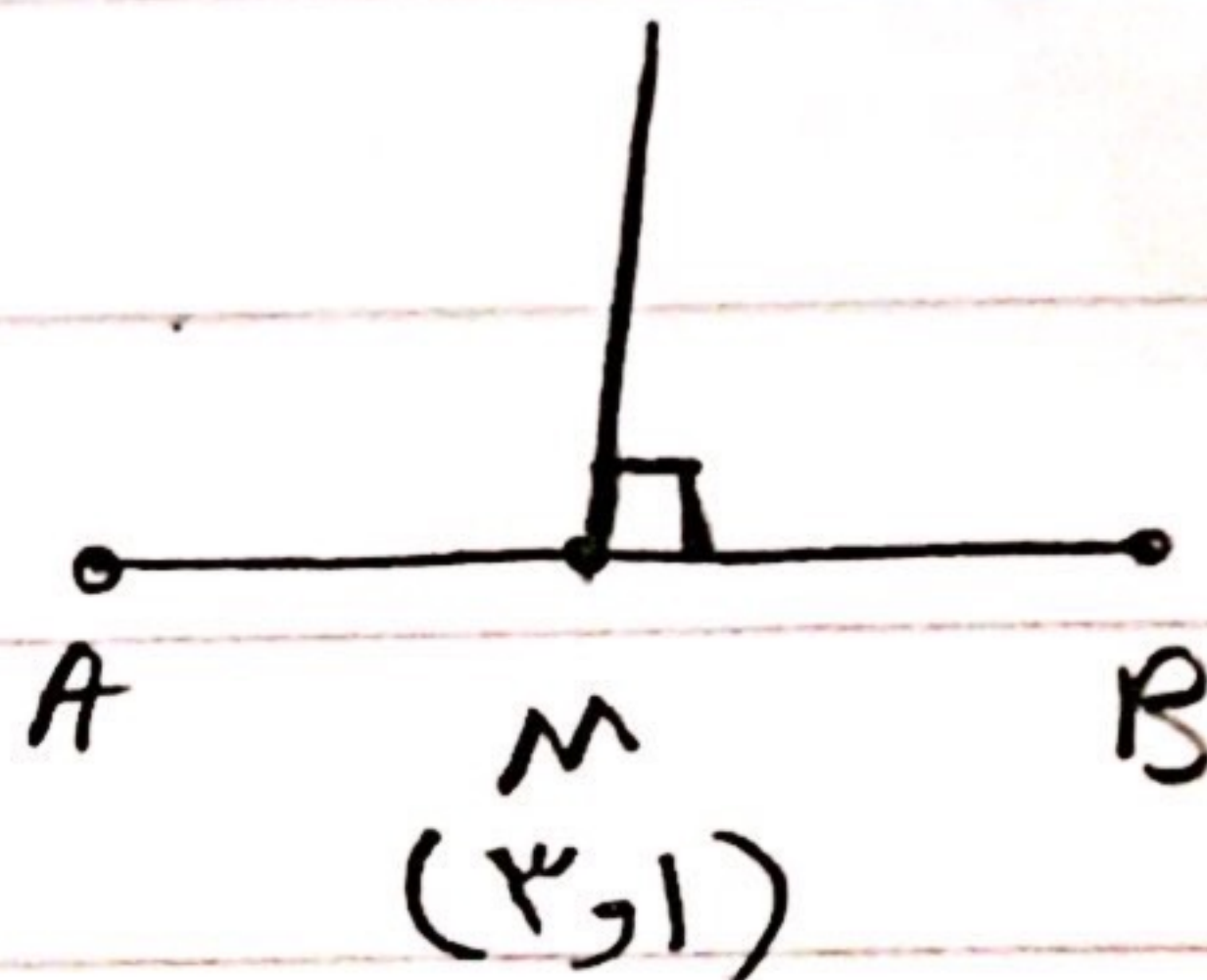
تعریف مساحت ۱۶۵

بازدهم در خط

اینها سید محمدی

۲۰

$$A(-4, 1) \quad B(3, 1)$$

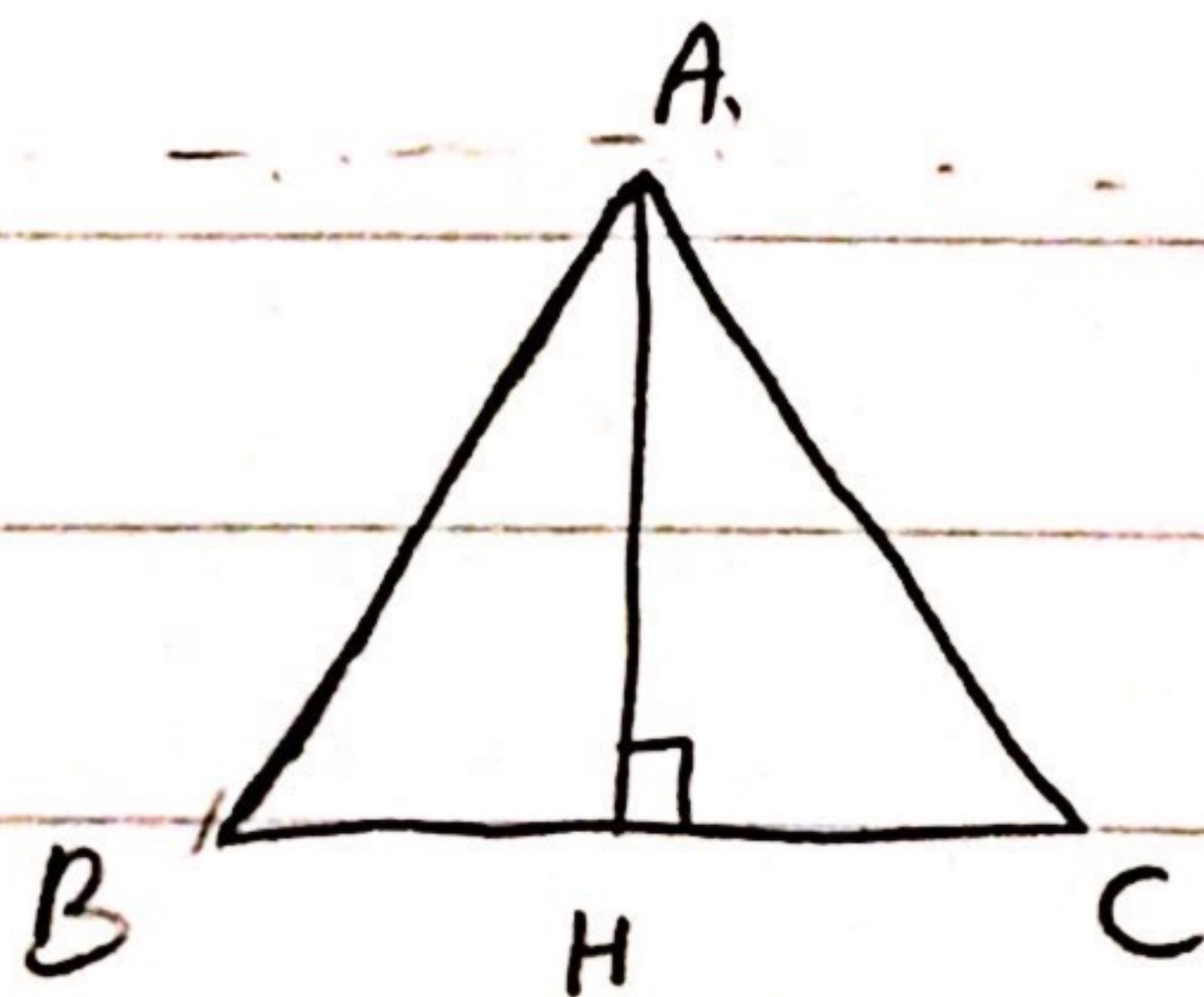


$$m = \frac{1 - (-4)}{3 - (-2)} = \frac{15}{-2} = -7.5$$

$$\Rightarrow m = \frac{1}{-7.5} \Rightarrow \frac{1}{-7.5}(3) + h = 1 \Rightarrow h = \frac{2}{-7.5} \Rightarrow y = \frac{1}{-7.5}x + \frac{2}{-7.5}$$

$$y - x = 2$$

$$A(3, 1) \quad B(-2, 7) \quad C(-1, 3)$$



$$BC = \sqrt{(-2 - (-1))^2 + (7 - 3)^2} = \sqrt{1 + 16} = \sqrt{17} = 5$$

$$m_{BC} = \frac{7 - 3}{-2 - (-1)} = \frac{4}{-1} = -4$$

$$-\frac{4}{1}(-1) + h = 3$$

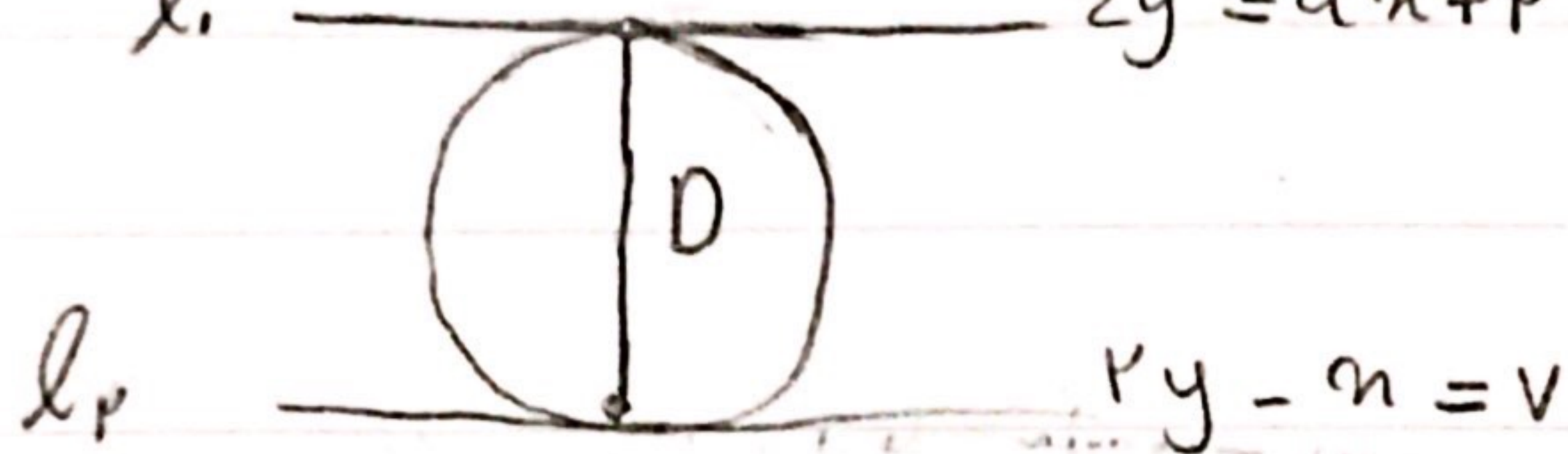
$$\Downarrow \quad h = 5 \quad \Rightarrow y = -4x + 5$$

د خط AH بر منصفه رأس A و BC است

$$3y + 4x = 5$$

$$\Rightarrow \overline{AH} = \frac{|4(3) + 3(1) - 5|}{\sqrt{17}} = \frac{10}{\sqrt{17}} = 2 \quad \Rightarrow 5 - 2 = 3$$

$$l: \Sigma y = ax + r$$



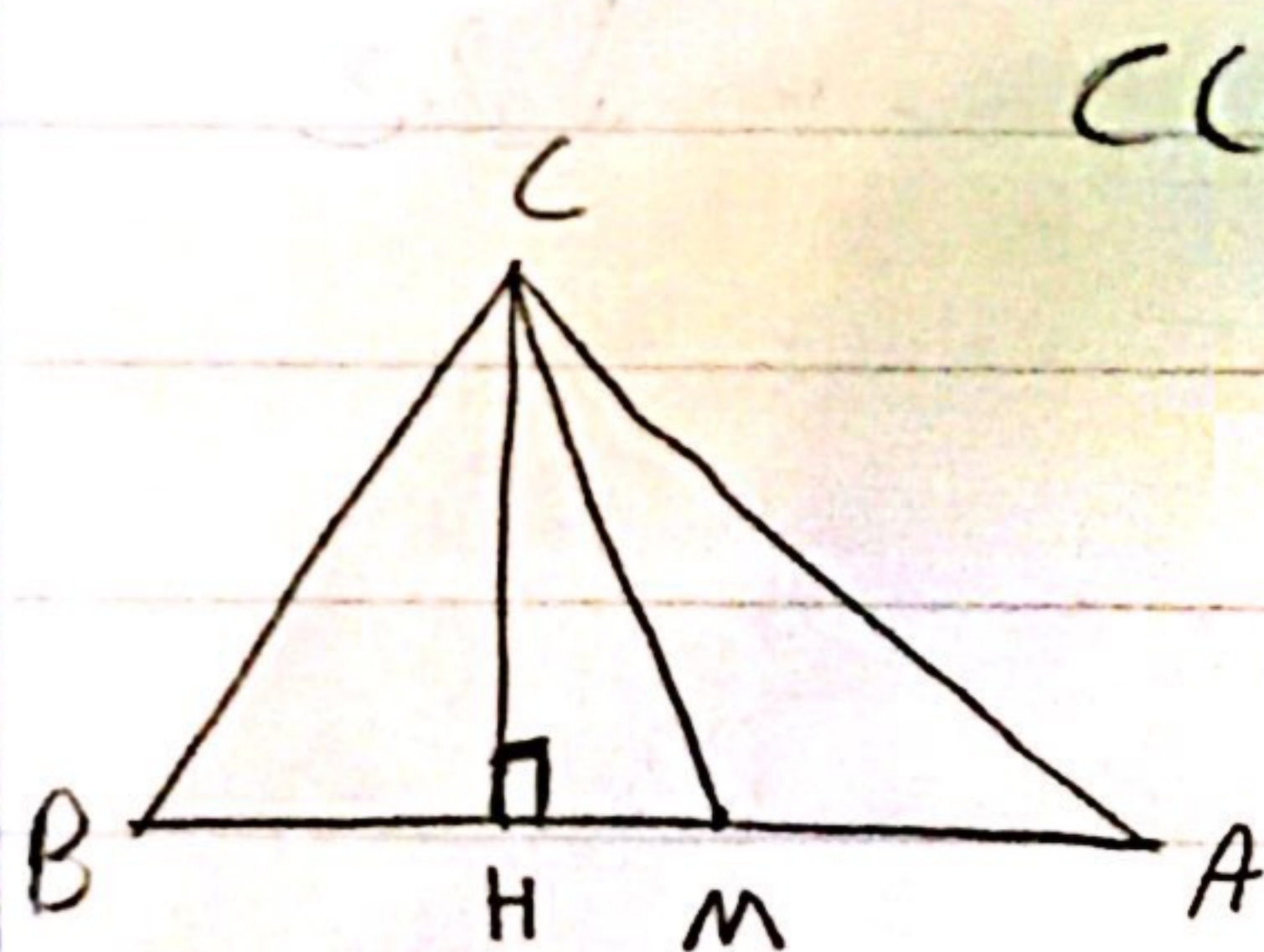
$$\Rightarrow \text{side} \Rightarrow m_l = m_{l_r}$$

$$l: y = \frac{a}{\Sigma} x + \frac{1}{r} \Rightarrow$$

$$l_r: y = \frac{x}{r} + \frac{v}{r} \Rightarrow \frac{a}{\Sigma} = \frac{1}{r} \Rightarrow a = r$$

$$D = \frac{|\frac{v}{r} - \frac{1}{r}|}{\frac{\sqrt{\omega}}{\Sigma}} = \frac{r}{\sqrt{\omega}} = \frac{4}{\sqrt{\omega}} \xrightarrow{\text{only}} \Rightarrow r = \frac{4}{\sqrt{\omega}}$$

$$S = \pi r^2 = \pi \times \left(\frac{4}{\sqrt{\omega}}\right)^2 = \frac{16}{\omega} \pi$$



$$C(-1, -r)$$

$$B(\Sigma, 1)$$

$$A(r, r)$$

$$\Sigma$$

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

$$\Rightarrow y = -x + \omega$$

$$m_{AB} = \frac{r-1}{r-\Sigma} = \frac{r}{-r} \Rightarrow m_{CH} = 1 \Rightarrow 1(-1) + h = -r \Rightarrow h = -r$$

$$y = x - r \Rightarrow x - r = -x + \omega \Rightarrow 2x = r + \omega \Rightarrow x = \frac{r+\omega}{2}$$

$$H = \left(\frac{v}{r}, \frac{r}{r}\right) \Rightarrow \overline{MH} = \sqrt{\left(\frac{v}{r} - r\right)^2 + \left(\frac{r}{r} - 1\right)^2} = \sqrt{\frac{1}{r}}$$

$$(m+1)x - (rm - \Sigma)y + 1 = 0$$

$$(rm - r)x + (\omega - m)y - v = 0$$

مستقيمات متوازية

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

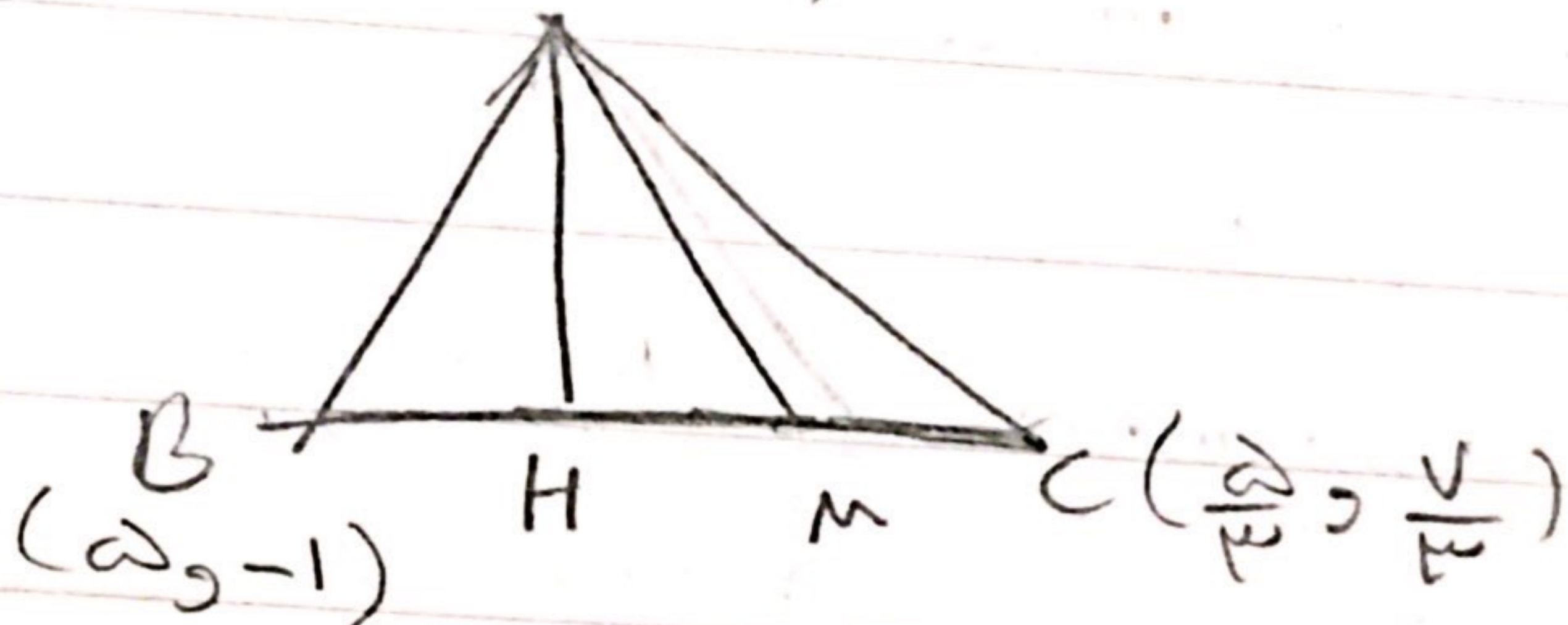
$$(m+1)(r - rm) = (rm - \Sigma)(m - \omega) \Rightarrow \frac{r - rm}{\omega - m}$$

$$a = \frac{m+1}{rm - \Sigma}$$

$$\Rightarrow \omega m^2 - rm + 1 = 0$$

$$\begin{cases} AB: x+2y=1 \\ AC: y=2x-1 \\ BC: x+y=2 \end{cases}$$

A(1,1)



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نقطه A

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

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

$$\Rightarrow |AH| = \frac{|1+1-2|}{\sqrt{2}} = \frac{0}{\sqrt{2}}$$

$$\omega = \omega x \Rightarrow x=1 \Rightarrow y=1$$

$$نقطه M = \left(\frac{\omega + \frac{\omega}{2}}{2}, \frac{\frac{1}{2} - 1}{2} \right) = \left(\frac{3\omega}{4}, -\frac{1}{4} \right)$$

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

نقطه B $\Rightarrow -\frac{x}{2} + \frac{1}{2} = -x + 2 \Rightarrow -x + 1 = -2x + 2 \Rightarrow x = 1 \Rightarrow y = -1$

$$x = \omega, y = -1$$

$$AM = \sqrt{\left(1 - \frac{10}{9}\right)^2 + \left(1 - \frac{1}{9}\right)^2} = \frac{\sqrt{20}}{3} \Rightarrow \frac{AM}{AH} = \frac{\frac{\sqrt{20}}{3}}{\frac{1}{\sqrt{2}}} = \frac{10}{9}$$

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

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فاصله = $\frac{|2h|}{\sqrt{2}} = \sqrt{20} \Rightarrow |2h| = 10 \Rightarrow h = \pm 5$

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فاصله از مبدأ = ± 5

فاصله از مبدأ = $2h = \pm 10$

$$\sqrt{(10-0)^2 + (0-5)^2} = \sqrt{125} = 5\sqrt{5}$$

فاصله از مبدأ

فاصله از مبدأ

$$\Lambda - \gamma_m + \gamma_m \gamma = 1a - 1am$$

$$Y_m^* + \lambda m - Y = 0 \Rightarrow \text{Jede}$$

$$m\gamma - \varepsilon n = \gamma_m$$

$$y + m n = n + r$$

هر دو عرفی از مبدأ برای ما دارند

ارتفاع = ۲ و قلعه = اختلاف طول از مبدأ ها

$$y = \frac{\sum x}{n} + r = \frac{\sum x}{n} = -\frac{m}{r} \Rightarrow \frac{-\sum + m - m^2}{r - rm} = \frac{B}{2}$$

$$y = (1-m)n + r \Rightarrow \text{سوال از مبدأ} = \frac{r}{1-m}$$

$$\frac{-1 + m - m^2}{1 - m} \quad \left\{ \begin{array}{l} -1 + m - m^2 = 10 - 10m \\ m^2 - 1m + 1 = m(m-1) \end{array} \right. \quad \frac{-2 + m - m^2}{1 - m} = \frac{1}{1 - m}$$

$$y = \gamma n - \mu$$

$$n(r_g - r)$$

$$\Rightarrow \frac{1+n}{2} = 2 \Rightarrow n = 3$$

$$(1, -1)$$

$$\frac{-1+y}{r} = -r \Rightarrow y = -r^2$$

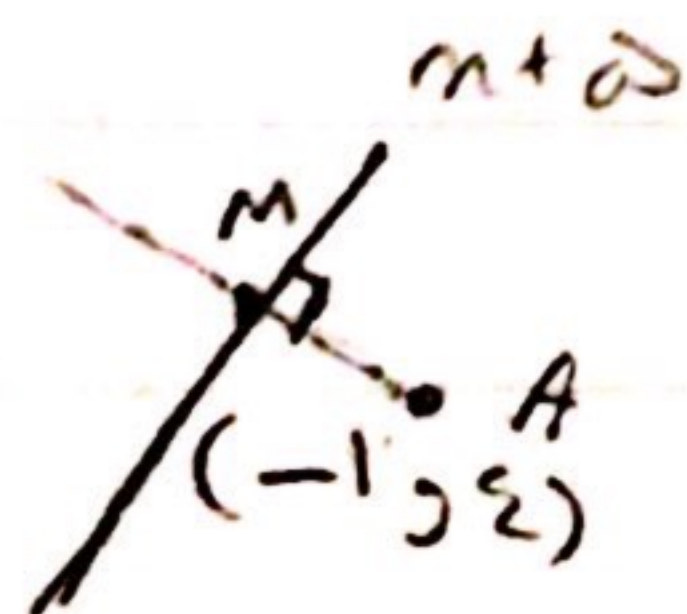
$$r(r) + h = -r \Rightarrow h = -9 \Rightarrow y = rx - 9$$

$$y = n + \omega$$

A(194)

$$y_{b-a} = ?$$

$$-(1) + h = r \Rightarrow h = r$$



$$m\bar{u}q\bar{q} \rightarrow -n+\psi = n+\omega \Rightarrow \gamma n = -\gamma \Rightarrow n = -1$$

$$y = \Sigma$$

$$\frac{1+n}{r} = -1 \Rightarrow 1+n = -r \Rightarrow n = -r$$

$$\frac{y+r}{r} = \varepsilon \Rightarrow y = 4$$

$$1 - (-1) = 1 \Rightarrow a = -1, b = 1$$