

ما صفا میری نقد ایسی ←

$$m_{AB} = \frac{y_B - y_A}{x_B - x_A} = \frac{1 - (-1)}{1 - 1} = \frac{-1 \times 1}{1} = -1 \rightarrow$$

دو نقطوں پر $m = \frac{1}{V}$

$$m \left| \frac{x_A + x_B}{2} = \frac{1 + 1}{2} = 1 \right.$$

$$\frac{y_A + y_B}{2} = \frac{1 + (-1)}{2} = 0 \rightarrow$$

$$y - y_m = m(x - x_m)$$

$$y - 0 = \frac{1}{1} (x - 1) \rightarrow$$

$$y = \frac{1}{1}x + \frac{0}{1}$$

AH = BC کی لंबائی کا تعین

$$m_{BC} = \frac{y_C - y_B}{x_C - x_B} = \frac{1 - 1}{1 - (-1)} = \frac{0}{2} = 0$$

$$y - y_B = m(x - x_B) \Rightarrow y - 1 = 0(x - 1) \Rightarrow$$

$$x^2 \rightarrow y + 1 - 1 = 0$$

$$AH = \frac{|1 \times 1 + 1 \times 1 - 1|}{\sqrt{1^2 + 1^2}} = \frac{1}{\sqrt{2}} = \frac{1}{\sqrt{2}}$$

$$BC = \sqrt{(x_C - x_B)^2 + (y_C - y_B)^2} = \sqrt{1^2 + 1^2} = \sqrt{2}$$

$$BC - AH = \sqrt{2} - \frac{1}{\sqrt{2}}$$

$$\text{expl. z. Ser. } \Rightarrow (r_y - n - v_2) \cdot r^y \quad \begin{matrix} r_y - r_n - k_2 \\ \uparrow \\ r_y - a_n - v_2 \end{matrix} \quad \leftarrow \mu \quad \text{y}$$

$$r_r = \frac{r' - e_1}{\sqrt{a^2 + b^2}} = \frac{1 - r + k_1}{\sqrt{1 + k}} = \frac{1r}{r\sqrt{\omega}} = \frac{e_1}{\sqrt{\omega}}$$

$$\Rightarrow r = \frac{\mu}{\sqrt{\omega}}$$

$$S = \pi r^2 \rightarrow S = \pi \times \frac{\mu}{\sqrt{\omega}} \times \frac{\mu}{\sqrt{\omega}} = \frac{\mu^2}{\omega} \pi$$

$$\begin{array}{l} \mu \left| \begin{array}{l} \frac{n_A + n_B}{r} = \frac{r+k}{r} = \mu \\ \frac{y_A + y_B}{r} = \frac{1+k}{r} = r \end{array} \right. \quad \leftarrow \mu \quad \text{y} \end{array}$$

$$m_{AB} = \frac{1 - \mu}{k - r} = -1 \rightarrow m_{CH} = 1$$

$$CH \rightarrow y + \mu = n + 1 \rightarrow y = n - r$$

$$AB \rightarrow y - y_A = m(n - n_A)$$

$$y - \mu = -1(n - r) \Rightarrow y = -n + \omega$$

$$n - r = -n + \omega \Rightarrow \mu n = \omega \Rightarrow n = \frac{\omega}{\mu}, y = \frac{\mu}{r}$$

esl AB, CH, wj, l'w H l'w

$$MH = \sqrt{\left(\frac{v}{w} - w\right)^2 + \left(\frac{w}{v} - v\right)^2} = \frac{\sqrt{vw}}{v}$$

$$(vm - v)x + (w - m)y - v = 0$$

← w

$$\rightarrow m_1 = \frac{vm - v}{m - w}$$

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$$(m + 1)x - (vm - v)y + 1 = 0$$

$$\rightarrow m_2 = \frac{m + 1}{vm - v}$$

nizac bor $\rightarrow m_1 \times m_2 = -1 \Rightarrow \frac{vm - v}{m - w} \times \frac{m + 1}{vm - v} = -1$

$$\Rightarrow \frac{vm - v}{m - w} = -\frac{vm + v}{m + 1} \Rightarrow vm^2 - vm + vm + v = -vm^2 + vm + 1 - v = 0$$

$\rightarrow w m^2 - v m + 1 = 0 \rightarrow \Delta < 0$
 Diskriminant negatív, így nincs megoldásunk.

$$AB \Rightarrow x + vy = w \Rightarrow y = -\frac{1}{v}x + \frac{w}{v}$$

$$AC \Rightarrow y = vx - 1$$

$$BC \Rightarrow x + y = v \Rightarrow y = -x + v$$

- $\left. \begin{array}{l} A(1, 1) \\ B(w, -1) \\ C(w/v, v/v) \end{array} \right\}$

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← v

$$\Rightarrow -\frac{1}{\nu} n_A + \frac{\mu}{\nu} = \nu n_A - 1 \Rightarrow \frac{\omega}{\nu} n_A = \frac{\omega}{\nu} \Rightarrow n_A = 1, y_A = 1$$

$$\Rightarrow -n_B + \kappa = -\frac{1}{\nu} n_B + \frac{\mu}{\nu} \Rightarrow \frac{1}{\nu} n_B = \frac{\omega}{\nu} \Rightarrow n_B = \omega, y_B = 1$$

$$\Rightarrow \nu n_C - 1 = -n_C + \kappa \Rightarrow \mu n_C = \omega \Rightarrow n_C = \frac{\omega}{\mu}, y_C = \frac{\nu}{\mu}$$

$$M = \frac{\omega + \frac{\omega}{\mu}}{\nu} = \frac{\omega}{\nu} \left(1 + \frac{1}{\mu}\right)$$

$$\frac{\frac{\nu}{\mu} - 1}{\nu} = \frac{1}{\mu}$$

$$AM = \sqrt{\left(1 - \frac{1}{\mu}\right)^2 + \left(1 - \frac{\nu}{\mu}\right)^2} = \sqrt{\frac{\omega^2}{\nu^2}} = \frac{\omega \sqrt{\nu}}{\mu}$$

$$\text{Si: } \frac{AM}{AH} = \frac{1}{\sqrt{\nu}} \Rightarrow AH = \frac{|1 + 1 - \kappa|}{\sqrt{\nu}} = \frac{\nu}{\sqrt{\nu}} = \sqrt{\nu}$$

$$\frac{AM}{AH} = \frac{\frac{\omega \sqrt{\nu}}{\mu}}{\sqrt{\nu}} = \frac{\omega}{\mu}$$

$b(0, b), A(a, 0)$

$$y = -\frac{1}{\nu} x + b \xrightarrow{A(a, 0)} 0 = -\frac{1}{\nu} a + b \Rightarrow b = \frac{1}{\nu} a \rightarrow$$

$$a = \nu b$$

$$\text{moci} \Rightarrow \frac{|b|}{\sqrt{1 + \frac{1}{\nu^2}}} = \frac{|b|}{\frac{\sqrt{\nu}}{\nu}} = \sqrt{\omega} \rightarrow |b| = \omega$$

⑤ eV

$$AB \geq \sqrt{a^p + b^p} \geq \sqrt{p\omega + 100} \geq \sqrt{17\omega} \geq \omega \sqrt{\omega}$$



$$\begin{cases} my - kx = km \Rightarrow y = \frac{k}{m}x + k \\ y + mx = x + k \Rightarrow y = (1-m)x + k \end{cases} \begin{cases} \text{horizontal line} \\ \text{vertical line} \end{cases} \Rightarrow \text{point } (0, k) \leftarrow A$$

(2)

$$y_B = \frac{k}{m}x_B + k, y_B = 0 \Rightarrow \frac{k}{m}x_B + k = 0 \Rightarrow$$

$$\frac{k}{m}x_B = -k \Rightarrow x_B = -\frac{m}{k}, y_B = 0$$

$$y_C = (1-m)x_C + k, y_C = 0 \Rightarrow 0 = (1-m)x_C + k \Rightarrow$$

$$(1-m)x_C = -k \Rightarrow x_C = \frac{-k}{1-m}, y_C = 0$$

$$\Rightarrow A(0, k), B(-\frac{m}{k}, 0), C(\frac{k}{m-1}, 0)$$

$$\text{dist} \Rightarrow |x_B - x_C| = \frac{\omega}{k} \Rightarrow \left| \frac{k}{m-1} + \frac{m}{k} \right| = \frac{\omega}{k}$$

$$\Rightarrow \frac{m^2 - m + k}{k(m-1)} = \frac{\omega}{k} \Rightarrow m^2 - m + k = \omega(m-1)$$

$$\Rightarrow m^2 - 4m + 9 \geq 0 \rightarrow m \geq 10$$

$$\textcircled{E} \rightarrow \frac{m^r - m + k}{\cancel{m} - p} \stackrel{z = \frac{\omega}{p}}{\Rightarrow} m^r - m + k - \omega m + \omega$$

$$\Rightarrow m^r + k - m - 1 \stackrel{z=0}{\Rightarrow} m^r - 1$$

$$d_0 \rightarrow -1 \times p^0 = -p^0$$

$$d_1 \Rightarrow y = p^n - p^0$$

$$d_1 \Rightarrow y = p^n - c$$

$$d_n \Rightarrow y = p^n - \frac{c + p^0}{p}$$

$$d_p \Rightarrow m \Rightarrow -p = k - \frac{c + p^0}{p} \Rightarrow \frac{c + p^0}{p} = q \rightarrow$$

$$c + p^0 = p \cdot q \Rightarrow c_p = p^n - q$$

$$d \Rightarrow y = n + \omega$$

$$m_d = 1 \Rightarrow m_{AA'} = -1$$

$$y - y_A = -1(n - n_A) \Rightarrow y - p = -n + 1 \Rightarrow y = -n + p$$

$$d_{AA'} \rightarrow n + \omega = -n + p$$

$$\Rightarrow \kappa n = -\kappa \Rightarrow n_2 = -1, y_2 = \kappa \rightarrow \vec{A}, A \vec{b}, M$$

$$M \left\{ \begin{array}{l} \frac{a_1 + 1}{\kappa} z = -1 \Rightarrow a_1 + 1 = -\kappa \rightarrow a_1 = -\kappa - 1 \\ \frac{b + \kappa}{\kappa} = \kappa \Rightarrow b + \kappa = \kappa^2 \Rightarrow b = \kappa^2 - \kappa \end{array} \right.$$

$$\kappa b - a = \kappa(\kappa^2 - \kappa) - (-\kappa - 1) = \kappa^3 - \kappa^2 + \kappa + 1 = 10$$