

ما صفا میری نقد ایسی ←

$$m_{AB} = \frac{y_B - y_A}{x_B - x_A} = \frac{1 - (-1)}{2 - 1} = \frac{-1 \times}{1} = -1 \rightarrow$$

← 1

مردود  $m = \frac{1}{V}$

$$m \left| \frac{x_A + x_B}{2} = \frac{1 + 2}{2} = 1.5 \right.$$

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

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

$$y - 0 = \frac{1}{V} (x - 1.5) \rightarrow$$

$$y = \frac{1}{V} x + \frac{1.5}{V}$$

AH = BC از A تا B

← 2

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

$$y - y_B = m(x - x_B) \Rightarrow y - 1 = \frac{-1}{2} (m + 1) \Rightarrow$$

$$\frac{x}{2} \Rightarrow y + 1 - \omega = 0$$

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

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

$$BC - AH = \sqrt{2} - \frac{1}{2} = \frac{3}{2}$$

$$\text{outlets 2 Servicos} \Rightarrow (r_g - n - v_{20}) \times r \rightarrow r_g - r_n - r_{20} \quad \leftarrow r$$

$$\quad \quad \quad \uparrow$$

$$\quad \quad \quad r_g - a_n - v_{20}$$

$$r = \frac{|c' - c|}{\sqrt{a^2 + b^2}} = \frac{|1 - r + k|}{\sqrt{1 + k}} = \frac{1r}{r\sqrt{\omega}} = \frac{c}{\sqrt{\omega}}$$

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

$$S = \pi r^2 \rightarrow S = \pi \times \frac{w}{\sqrt{\omega}} \times \frac{w}{\sqrt{\omega}} = \frac{9}{\omega} \pi$$

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

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

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

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

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

$$n - r = -n + \omega \Rightarrow rn = v \Rightarrow n = \frac{v}{r}, y = \frac{w}{r}$$

عسل AB, CH, وبقی لقی H لقی

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

$$(wm - v)x + (\omega - m)y - v = 0 \quad \leftarrow \omega$$

$$\rightarrow m_1 = \frac{wm - v}{m - \omega}$$

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

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

$$\text{نیزهست } \rightarrow m_1 \times m_2 = -1 \Rightarrow \frac{wm - v}{m - \omega} \times \frac{m+1}{vm - \omega} = -1$$

$$\Rightarrow \frac{wm - v}{m - \omega} = -\frac{vm - \omega}{m+1} \Rightarrow wm^2 - vm + vm - v =$$

$$-vm^2 + \omega m + 1 - \omega$$

$$\rightarrow \omega m^2 - vm + 1 - \omega = 0 \rightarrow \Delta < 0$$

این معادله توانسته دو جواب نداشته باشد

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

$$AC \Rightarrow y = v(x-1)$$

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

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

$\leftarrow \omega$

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

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

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

$$M \left| \begin{array}{l} \frac{\omega + \frac{\omega}{\nu}}{\nu} = \frac{1 + \frac{1}{\nu}}{\nu} \\ \frac{\frac{1}{\nu} - 1}{\nu} = \frac{1 - \nu}{\nu} \end{array} \right.$$

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

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

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

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

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

$$a = \nu b$$

$$\text{moi} \Rightarrow \frac{|b|}{\sqrt{1 + \frac{1}{\nu}}} = \frac{|b|}{\sqrt{\frac{\nu + 1}{\nu}}} = \sqrt{\omega} \Rightarrow |b| = \omega$$

$$AB = \sqrt{a^2 + b^2} = \sqrt{40 + 100} = \sqrt{140} = 10\sqrt{14}$$

$$\begin{cases} my - nx = ym \Rightarrow y = \frac{y}{m}x + y \\ y + mx = x + y \Rightarrow y = (1-m)x + y \\ y = 0 \end{cases} \Rightarrow \text{points } (0, y) \text{ and } (x, 0)$$

$$y = \frac{y}{m}x + y, y = 0 \Rightarrow \frac{y}{m}x + y = 0 \Rightarrow$$

$$\frac{y}{m}x = -y \Rightarrow x = -\frac{m}{y}, y = 0$$

$$y = (1-m)x + y, y = 0 \Rightarrow 0 = (1-m)x + y \Rightarrow$$

$$(1-m)x = -y \Rightarrow x = \frac{-y}{1-m}, y = 0$$

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

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

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

$$\Rightarrow m^2 - 4m + 4 = 0 \Rightarrow m = 2$$

$$\textcircled{E} \rightarrow \frac{m^r - m + \kappa}{\cancel{\kappa m - \kappa} \quad m-1} \approx \frac{-\omega}{\kappa} \Rightarrow m^r - m + \kappa \approx -\omega m + \omega$$

$$\Rightarrow m^r + \kappa m - 1 \approx 0 \Rightarrow m \approx -1$$

$$d_{\text{no}} \rightarrow -1 \times \kappa \approx -\kappa$$

$$d_1 \Rightarrow y \approx \kappa n - \kappa$$

← 9

$$d_1 \Rightarrow y \approx \kappa n - c$$

$$d_{\kappa} \Rightarrow y \approx \kappa n - \frac{c + \kappa}{\kappa}$$

$$d_{\kappa} \text{ in } m \Rightarrow -\kappa \approx \kappa - \frac{c + \kappa}{\kappa} \Rightarrow \frac{c + \kappa}{\kappa} \approx 2 \rightarrow$$

$$c + \kappa \approx 2\kappa \rightarrow c \approx \kappa \Rightarrow d_{\kappa} \approx \kappa n - \kappa$$

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

← 10

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

$$y - y_A \approx -1(n - n_A) \Rightarrow y - \kappa \approx -n + 1 \Rightarrow y \approx -n + \kappa$$

$$d_{AA'} \text{ in } m \rightarrow n + \omega \approx -n + \kappa$$

$$\Rightarrow r_n = -r \Rightarrow x_{z-1}, y_z \mapsto \hat{A}, A \hat{b}, M$$

$$M \left\{ \begin{array}{l} \frac{a_{z+1}}{r} z - 1 \Rightarrow a_{z+1} z - r \rightarrow a_z - r \\ \frac{b+z}{r} = r \Rightarrow b + rz \wedge \Rightarrow b_z r \end{array} \right.$$

$$r b - a = rz - (-r) = rz + r = 1r = 1 \omega$$