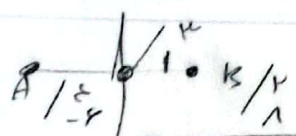


۲۰

پایه: یازدهم دبیرستان

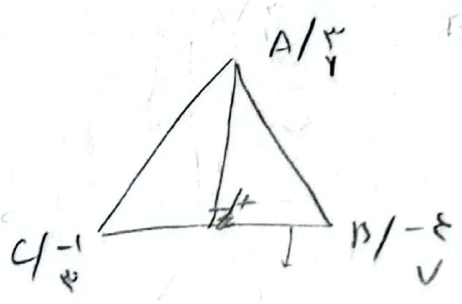


$M_{AB} = -1$ $y_{AB} = -1x + 1$

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

①

۹	۳۱	-۱
-۷	-۱۳	-۱۴
-۴	-۴۷	۲۱
-۱	۳۱	۱



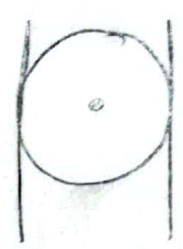
$BC = \sqrt{Dx^2 + Dy^2} = 2$

②

$S = \begin{vmatrix} 1 & 1 & 1 \\ -1 & 1 & 1 \\ 1 & 1 & 1 \end{vmatrix} \times \frac{1}{2} = 0$

$\frac{AH \times 2}{2} = 0 \rightarrow AH = 2$

$BC - AH = 2$

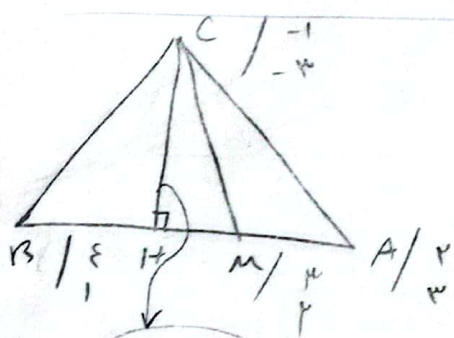


③

$d = \frac{|C - C'|}{\sqrt{Dx^2 + Dy^2}} = \frac{12}{\sqrt{6}} \left(\frac{2}{\sqrt{6}} \right)$

$x - y + 1 = 0$

$r = \frac{12}{\sqrt{6}} \rightarrow S = \frac{9}{8} R$



$M_{AB} = -1 + 0$

④

$-1 + 0 = -1$

$H / \sqrt{2}$

$M_H = \sqrt{\frac{1}{2} + \frac{1}{2}} \rightarrow \sqrt{\frac{1}{1}}$

$y = x - 1$

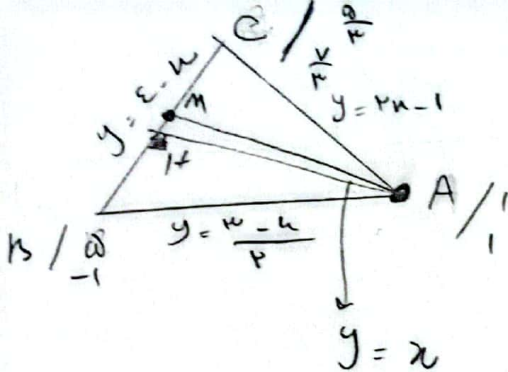
$(m-1)x + (\omega-m)y - 1 = 0 \rightarrow \frac{-m+1}{\omega-m}$

$(m+1)x - (1m-1)y + 1 = 0 \rightarrow \frac{m+1}{1m-1} \Rightarrow \frac{-m+1}{\omega-m} \times \frac{m+1}{1m-1} = -1$

$\frac{-m+1}{-1m+1} = -1 \rightarrow -m+1 = 1m-1 \rightarrow 2m = 2 \rightarrow m = 1$

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

محل تقاطع



$$A \rightarrow \vec{a} \rightarrow \mu u - \lambda = \mu - u \rightarrow u = 1$$

$$B \rightarrow \lambda - \mu u = \mu - u \rightarrow u = 0$$

$$C \rightarrow \mu u - 1 = \epsilon - u \rightarrow u = \frac{a}{\mu}$$

$$M \rightarrow \vec{a} = \frac{10}{\mu}$$

$$AM = \sqrt{\frac{\epsilon a}{a} + \frac{1}{a}} \rightarrow \sqrt{\frac{0}{a}}$$

$$H \rightarrow \frac{1}{\mu}$$

$$AH = \sqrt{\mu}$$

$$\frac{AM}{AH} = \frac{\frac{0 \sqrt{\mu}}{\mu}}{\frac{\sqrt{\mu}}{1}} = \frac{0}{1}$$

$$y = -\frac{1}{\mu} u + \delta \rightarrow \mu y + u - \mu \delta =$$

$$y = -\frac{1}{\mu} u + 0 \rightarrow y = 0 \quad \mu = 0$$

$$\rightarrow x = 1 \quad \mu = 0$$

$$d = \frac{|ax + by + c|}{\sqrt{a^2 + b^2}} = \frac{|\mu \delta|}{\sqrt{\mu}} = \sqrt{\mu} \delta$$

$$d = \sqrt{\mu \delta + \mu \delta} = \sqrt{2\mu \delta}$$

$$y = \frac{\epsilon}{\mu} u + \mu$$

$$(1 - \mu) u + \mu = \frac{\epsilon}{\mu} u + \mu \rightarrow 1 - \mu = \frac{\epsilon}{\mu} \rightarrow \mu^2 - \mu - \epsilon =$$

$$y = (1 - \mu) u + \mu$$

$$u = -\frac{\mu}{\mu}$$

$$u = 0 \rightarrow (0, \mu)$$

$$h = \mu : \text{داریم دو نقطه دیگر را } y = \mu \text{ و } y = \frac{\mu}{1 - \mu}$$

$$\frac{\mu}{1 - \mu} + \frac{\mu}{\mu} = \frac{a}{\mu} \rightarrow \mu = \mu$$

$$\frac{\mu}{1 - \mu} + \frac{\mu}{\mu} = \frac{a}{\mu} \rightarrow \mu = -\mu \pm \sqrt{a}$$

$$S = \frac{1}{\mu} \left| \frac{\mu}{1 - \mu} + \frac{\mu}{\mu} \right| \times \mu = \frac{a}{\mu}$$

$$y = \mu u - \mu$$

$$y = \mu u - \mu$$

$$y = \mu u - a$$

$$y_{AA'} = -x + \mu$$

$$-u + \mu = u + a$$

$$u = -1 \rightarrow y = \epsilon$$

$$A' = \begin{pmatrix} -\mu & a \\ \mu & b \end{pmatrix}$$

$$b - a = \mu + \mu = 1a$$