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روزنامه‌های اطلاعات، روزنامه‌های کیهان، روزنامه‌های...

$A(1, -4) \quad B(2, 1) \quad \text{خط مستقیم}$

$a = \frac{\Delta y}{\Delta x} = \frac{1+4}{2-1} = \frac{12}{-1} = -12 \rightarrow a' = \frac{1}{12}$   
 $aa' = -1$

$y - y_0 = m(x - x_0)$   
 $y - 1 = \frac{1}{12}(x - 2)$   
 $y = \frac{1}{12}x + \frac{10}{12}$

$A, B, C = \begin{cases} \frac{x+1}{2} = 2 \\ \frac{-4+1}{2} = 1 \end{cases}$

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

$BC = \sqrt{(\Delta y)^2 + (\Delta x)^2} = \sqrt{(3-2)^2 + (-1-(-1))^2} = \sqrt{1+0} = 1$

$a_{BC} = \frac{3-2}{-1-(-1)} = \frac{1}{0} \rightarrow y - 2 = \frac{1}{0}(x + 1) \rightarrow y = \frac{1}{0}x + \frac{1}{0} \rightarrow y + \frac{1}{0}x - \frac{1}{0} = 0$

$\Delta - 2 = 3$

$AH = \frac{|+\frac{1}{0}x + 1 \times 1 - \frac{1}{0}|}{\sqrt{\frac{1}{0^2} + \frac{1}{0^2}}} = \frac{1}{\frac{1}{0}} = 0$

$y = ax + r$   
 $fy - am - r = 0$

$fy - m = v$   
 $fy - m - v = 0$

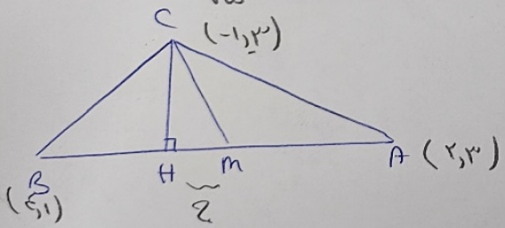
$\frac{r}{v} = \frac{a}{1} \Rightarrow a = r$

$fy - m - r = 0 \quad \text{و} \quad fy - m - v = 0$

$\frac{1}{\cos \theta} = \frac{1}{\sin \theta} = \frac{|C-C'|}{\sqrt{a^2+b^2}} = \frac{|-2+12|}{\sqrt{14+8}} = \frac{10}{\sqrt{22}}$

$\Rightarrow \sin \theta = \frac{r}{\sqrt{a}}$

$\sin \theta = \frac{r}{\sqrt{a}} = \frac{1}{\sqrt{a}} \Rightarrow a = 1$



$m = A, B, C = \begin{cases} \frac{x+1}{2} = 2 \\ \frac{1+3}{2} = 2 \end{cases} \Rightarrow m = (2, 2)$

$a_{AB} = \frac{3-1}{1-1} = \frac{2}{0} = -1 \rightarrow y - 3 = -1(x - 1) \rightarrow y = -x + 4$

$y + 3 = 1(x + 1) \rightarrow y = x - 2$

$a' = 1 \rightarrow aa' = -1$

$\Rightarrow m - 2 = -n + 4 \quad m = 2 \rightarrow n = \frac{1}{2}, y = \frac{1}{2}$

$MH = \sqrt{(2-\frac{1}{2})^2 + (1-\frac{1}{2})^2} = \sqrt{(\frac{3}{2})^2 + (\frac{1}{2})^2} = \sqrt{\frac{9}{4} + \frac{1}{4}} = \sqrt{\frac{10}{4}} = \frac{\sqrt{10}}{2}$

$(m-2)x + (2-m)y - v = 0$

$(m+1)x + (2-m)y + 1 = 0$

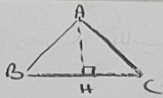
$\frac{1}{m-2} = -1 \Rightarrow \frac{1}{m-2} \times \frac{1}{m+1} = 1 \rightarrow \frac{1}{m-2} = \frac{1}{m+1}$

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

$$AB: n+ry=r$$

$$AC: y=rn-1$$

$$BC: n+y=\varepsilon$$



$$A \rightarrow -\frac{1}{r}n + \frac{r}{r} = rn-1 \rightarrow \frac{a}{r} = \frac{a}{r}m \quad (1,1) A$$

$$B \rightarrow -\frac{1}{r}n + \frac{r}{r} = -n + \varepsilon \rightarrow \frac{1}{r}n = \frac{\varepsilon}{r} \quad (\varepsilon, -1) B$$

$$C \rightarrow rn-1 = -n + \varepsilon \rightarrow rn = \varepsilon \quad (\frac{\varepsilon}{r}, \frac{r}{r}) C$$

$$BC \perp AH = m = \frac{\frac{1}{r}}{\frac{r}{r}} = \frac{\frac{a}{r}}{\frac{1+\frac{r}{r}}{r}} = \frac{a\sqrt{r}}{r}$$

$$BC \perp AH = -n + r = y$$

$$AH \perp BC = n = y$$

$$\Rightarrow AM = \sqrt{\left(\frac{1}{r}\right)^2 + \left(\frac{r-1}{r}\right)^2} = \frac{a\sqrt{r}}{r}$$

$$\frac{AM}{AH} = \frac{\frac{a\sqrt{r}}{r}}{\sqrt{r}} = \frac{a}{r}$$

$$am+by+c = 0 \quad | \quad am+by+c = 0 \quad | \quad am+by+c = 0$$

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

$$\frac{a}{b} = \frac{1}{r} \rightarrow ra=b$$

$$\rightarrow am+by+c=0 \rightarrow am+ray+c=0$$

$$B \rightarrow y=0 \rightarrow n = -\frac{c}{a}$$

$$A \rightarrow n=0 \rightarrow y = -\frac{c}{ra}$$

$$AB = \sqrt{\left(\frac{c}{ra}\right)^2 + \left(\frac{c}{a}\right)^2}$$

$$AB = \sqrt{\frac{c^2}{r^2 a^2} + \frac{c^2}{a^2}}$$

$$\Rightarrow AB = \sqrt{\frac{c^2}{r^2 a^2} + \frac{c^2}{a^2}} = \frac{c}{a} \sqrt{\frac{1}{r^2} + 1}$$

$$y = n(1-m) + r \quad y = \frac{r}{m}n + r \quad y=0$$

$$y=0 \rightarrow n = -\frac{r}{1-m}$$

$$S = \frac{am+by+c}{\sqrt{a^2+b^2}} = \frac{a}{r}$$

$$\rightarrow \left| \frac{-m+m^r+r}{r(1-m)} \right| = \frac{a}{r}$$

$$m^r-m+\varepsilon = 0 - \delta m$$

$$m^r+\varepsilon m-1=0 \rightarrow \text{...}$$

$$y=rn-r$$

$$m(r,-r)$$

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

$$m^r-m+\varepsilon = -a+\delta m$$

$$m^r-4m+9 \rightarrow (m-r)^2, m=r$$

$$-1 \times r = -r$$

$$n=1 \rightarrow y=-1$$

$$n_m = \frac{1+n_{B'}}{r} = r \quad m_B = r$$

$$y_m = \frac{-1+y_{B'}}{r} = -r \quad y_{B'} = -r$$

$$y = rn + b \quad y = rn - 9$$

$$y = n + a \quad A(1,r) \quad A'(a,b) \quad r(b-a) = ?$$

$$-1 \rightarrow y = -n + b \quad y = -n + r$$

$$-n+r = n+a \quad -r = r+a$$

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

$$A' \Rightarrow A'(-r, 9)$$

$$r \times 9 = (-r) = -18$$

