

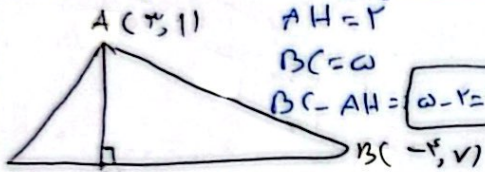
عدد مختلف فصل کندند A, B بر آن عدد است پس : $m = \frac{\Delta y}{\Delta x} = \frac{-4-1}{10-2} = \frac{-14}{8} = -\frac{7}{4}$ $m = m' = -1$

$$m' \Rightarrow -v_a m' = -1 \Rightarrow m' = \frac{1}{v} \Rightarrow y = \frac{1}{v}x + b$$

$$M(x, y) = \frac{x_A x_B}{r} \cdot x \quad \frac{y_A y_B}{r} \cdot y$$

$$\Rightarrow \frac{r}{r} = v, \quad \frac{A + (-9)}{r} = 1 \rightarrow M(r, 1) \rightarrow y = \frac{1}{v} n \cdot b \xrightarrow{M(r, 1)} \frac{r}{v} + b = 1 \Rightarrow b = \frac{r}{v}$$

$$y = \frac{1}{v}x + \frac{f}{v} \quad \boxed{vy - x = f}$$



$$BC = \sqrt{(m_D - m_C)^2 + (y_C - y_D)^2}$$

$$3C = \sqrt{(-x+1)^2 + (y-3)^2} = \sqrt{9 + 9} = \sqrt{18} = 3\sqrt{2}$$


 $B(-4, 7)$
 $A(-1, 4)$
 $y_{AC} = \frac{4}{m + b}$ (خط افقی) $(-1, 4)$

$$m_{BC} = \frac{r-r}{-r+1} = \frac{r}{-r} \rightarrow m_{AH} \times m_{BC} = -1 \Rightarrow m_{AH} \times \frac{r}{-r} = -1 \Rightarrow m_{AH} = \frac{r}{r} \Rightarrow y_{AH} = \frac{r}{r}x + b \Delta(r,1)$$

$$H\left(\frac{V}{\infty}, \frac{1}{\infty}\right) \Rightarrow AH = \sqrt{\frac{1}{\frac{V}{\infty} + \frac{1}{\infty}}} = \sqrt{\frac{1}{\frac{1}{V_0}}} = V_0 = AH$$

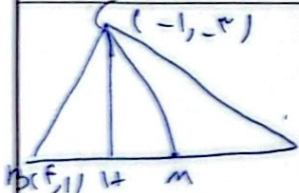
در خط افق مدارهای گندمی نسبت به آن مادی است $f_y - m = 2$, $f_y - m = 5$

$$m = \frac{1}{r} \quad m' = \frac{a}{r} = \frac{1}{r} \Rightarrow a = r = r_y - r_n = r \xrightarrow{-r} \textcircled{I} r_y - n = 1$$

$$\textcircled{II} \quad y - n = v \quad \text{F}$$

فقط دھاریہ = $\frac{1}{\omega} = \frac{1}{\sqrt{14}} = \frac{1}{3.7416573867739416}$

$$\frac{v_{\text{obs}}}{r} = \frac{v}{r} = \frac{v}{\frac{r}{\omega}} = \omega = \pi v \Rightarrow \left(r, 1 \times \left(\frac{v \sqrt{10}}{\omega} \right)^2 = r, 1 \times \frac{9}{\omega} = 0,405 \right)$$



$$M = \lim_{r \rightarrow f} \left(\frac{r-1}{r-f} \right) M(r, y) \Rightarrow n = \frac{n_A + n_B}{r}, y = \frac{y_A + y_B}{r}, x = \frac{x_A + x_B}{r} = x, y = \frac{y_A}{r} =$$

$m_{AD} < m_{CH} = -1$ سے اس لئے $AB \sim \epsilon H$

$AB \Rightarrow y = -x + b \xrightarrow{A(r, r)} r = -r, b = b: a = 1, y = -x + a$

$$CH \Rightarrow y = mb \frac{(-1, -r)}{r}, x = -1 + b \Rightarrow b = -r \Rightarrow y = +m - r$$

$$H\left(\frac{1}{r}, \frac{r}{r}\right), M(r, r) \Rightarrow MH = (m_H - x_M) / (y_H - y_M) = \left(\frac{1}{r} - r\right) / \left(\frac{r}{r} - r\right) = \left(\frac{1}{r} - r\right) / \left(1 - r\right) = \frac{1}{r} + \frac{1}{1-r}$$

نیب های در فصل عدد حاصل قدرین به این ۱- است

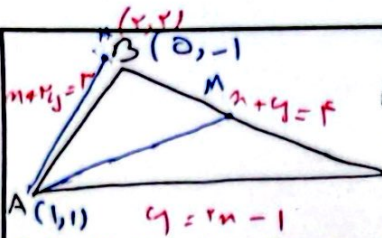
$$(m+1)x + (r_m - r)y + 1 = 0 \quad \rightarrow m = \frac{-a}{b} = \frac{-(r_m - r)}{(r - m)}$$

$$\hookrightarrow m' = \frac{r(m+1)}{r(m-1)} \cdot \frac{m+1}{r(m-1)} \quad (D-m)$$

$$\text{Q.1) } m \times m' = -1 \Rightarrow m' = -\frac{1}{m} \Rightarrow \frac{m+1}{r_m - f} = \frac{-1}{\frac{-1}{r_m - r}} = \frac{m+1}{(r_m - f)} = \frac{\angle (O - m)}{\angle (r_m - r)} = \angle (r_m - r)(m+1) = (O - m) \times r_m$$

$$r_{mT} + m_{-T} = -r_{mT} + 1 \text{ if } m_{-T} = 1 \Rightarrow 0_{mT} - 1_{m_{-T}} + 1 = 0 \quad D = 149 - 149 = \Delta = -191 \Delta K.$$

نقطه میانی و عمود بر خط



$AC = BC \Rightarrow \sqrt{(x-1)^2 + (y-1)^2} = \sqrt{(x-0)^2 + (y+1)^2}$
 $AC = AB \Rightarrow \sqrt{(x-1)^2 + (y-1)^2} = \sqrt{(x-1)^2 + (y+1)^2}$
 $BC = AB \Rightarrow \sqrt{(x-0)^2 + (y+1)^2} = \sqrt{(x-1)^2 + (y+1)^2}$
 $C(\frac{5}{3}, \frac{5}{3})$

$A(1,1) \quad y = 2x - 1$
 $AC: y = 2x - 1 \Rightarrow y = 2x - 1 \quad M \Rightarrow B(0,-1) \Rightarrow M = (\frac{0+1}{2}, \frac{-1+1}{2}) = M(\frac{1}{2}, \frac{0}{2})$
 $AB: m + x = 1 \quad AM = \sqrt{(m-1)^2 + (0-1)^2} = \sqrt{(1-\frac{1}{2})^2 + (1-\frac{0}{2})^2} = \sqrt{\frac{1}{4} + 1} = \sqrt{\frac{5}{4}} = \frac{\sqrt{5}}{2}$
 $BC: m + y = 1 \quad AH \perp BC \Rightarrow MAH = \frac{1}{m} = \frac{1}{-1} = -1 \quad MAH = \frac{1}{m}$

ارتفاع
کتاب

$y = m \cdot x + c \Rightarrow y = m \cdot x + c \Rightarrow \sqrt{r} = \frac{|y - mx + c|}{\sqrt{1 + m^2}} = \frac{|c|}{\sqrt{1 + m^2}}$

$A(x_1, y_1) \quad B(x_2, y_2) \quad y = c, A(x_1, c) \quad B(x_2, c)$

$C, y = 0 \Rightarrow 0 = m \cdot x + c \Rightarrow mx = -c \Rightarrow x = -\frac{c}{m}$
 $A(-\frac{c}{m}, 0), B(0, c)$
 $AB = \sqrt{(\frac{c}{m})^2 + c^2} = \sqrt{\frac{c^2}{m^2} + c^2} = \sqrt{c^2(\frac{1}{m^2} + 1)} = |c| \sqrt{\frac{1}{m^2} + 1} = |c| \sqrt{1 + m^2}$

$y = (1-m)x + 2$
 $y = \frac{1}{m}x + 2 \Rightarrow$ عرض از مبدأ را به ازای $x=0$ می‌گیریم
 $y = (1-m)x + 2 \quad y = 0 \Rightarrow (1-m)x = -2 \Rightarrow x = -\frac{2}{1-m}$
 $y = \frac{1}{m}x + 2 \quad y = 0 \Rightarrow \frac{1}{m}x = -2 \Rightarrow x = -2m$
 $C = \frac{1}{\sqrt{1+m^2}} |m \cdot x - y + 2| \Rightarrow \frac{1}{\sqrt{1+m^2}} |m \cdot (-\frac{2}{1-m}) - (-2) + 2| = \frac{1}{\sqrt{1+m^2}} |-\frac{2m}{1-m} + 2 + 2|$
 $0 \cdot m - 0 = m^2 + 0 - 1 \Rightarrow m^2 + 0 - 1 = 0 \Rightarrow m^2 = 1 \Rightarrow m = 1$

$y = 2x - 1 \Rightarrow x = \frac{y+1}{2}$
 $y = 2x - 1 \Rightarrow x = 1, y = -1$
 $A(0, 2) \quad y = 2x - 1 \Rightarrow y = 2(0) - 1 = -1$
 $M(x, y) \Rightarrow (x, y) = (1, -1)$
 $\frac{x+0}{2} = 1 \Rightarrow x = 2$
 $\frac{y+2}{2} = -1 \Rightarrow y = -2$
 $M(2, -2)$
 $y = 2x - 1 \Rightarrow y = 2(2) - 1 = 3$
 $y = 2x - 1 \Rightarrow y = 2(2) - 1 = 3$

$y = x + 1$
 $AA' \perp y = x + 1 \Rightarrow AA' \text{ شیب} = -1$
 $AA' \text{ شیب} = \frac{y-b}{x-a} = -1 \Rightarrow a-1 = 2-b \Rightarrow a+b = 3$
 $M = (\frac{1+a}{2}, \frac{b+2}{2})$
 $y = x + 1 \Rightarrow \frac{1+a}{2} = \frac{b+2}{2} + 1 \Rightarrow \frac{1+a}{2} = \frac{b+2}{2} + 1 \Rightarrow \frac{1+a}{2} = \frac{b+2}{2} + 1$

$I, II \begin{cases} a+b=3 \\ a-b=-9 \end{cases} \Rightarrow a+b=3 \quad a-b=-9 \Rightarrow 2a = -6 \Rightarrow a = -3 \Rightarrow b = 6$
 $-9 = a-b \quad II$
 $2a = -6 \Rightarrow a = -3 \Rightarrow b = 6$

$$m_{AH}=1 \rightarrow y = x + b \quad \frac{A(b)}{A(1)}, 1 = 1 + b \Rightarrow b = 0 \quad y_{AH} = x \text{ (95\%)}.$$

$$AH, B \text{ (كل تلاقى)} = H \Rightarrow y - x = y + x - r \Rightarrow r = x = r \Rightarrow x = r, y = r$$

$$\text{H} = (r, r) \rightarrow AH = \sqrt{(r-1)^2 + (r-1)^2} = \sqrt{r} \Rightarrow \frac{AM}{AH} = \frac{AM = \frac{\partial \sqrt{r}}{\partial r}}{AH = \sqrt{r}}$$

$$\frac{AM}{AH} = \frac{\frac{\partial \sqrt{r}}{\partial r}}{\sqrt{r}} = \frac{\frac{0.5}{\sqrt{r}}}{\sqrt{r}} = \frac{0.5}{r} \Rightarrow \frac{AM}{AH} = \frac{0.5}{r}$$