

(17)

المعادن : ياتوم دكتور



$$\mu = \left(\frac{1+2}{2}, \frac{1+(1)}{2} \right) \Rightarrow \mu(1, 1)$$

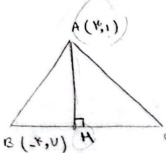
$$-\frac{1}{2} + \frac{1}{2}$$

$$m_{AB} = \frac{1-(1)}{2-1} = \frac{0}{1} = 0 \rightarrow m' = \frac{1}{0}$$

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

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

المعادن : ياتوم دكتور



$$|BC| = \sqrt{(1-(-1))^2 + (1-2)^2} = \sqrt{4+1} = \sqrt{5}$$

$$a-1 = \frac{1}{0}$$

$$a = \frac{1-1}{-1+1} = \frac{0}{0}$$

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

$$\frac{1+1-1}{\sqrt{4+1}} = \frac{1}{\sqrt{5}}$$

$$y_2 = -x_2 + a$$

المعادن : ياتوم دكتور



$$d = \frac{|1-1|}{\sqrt{1+1}} = \frac{0}{\sqrt{2}} = 0$$

$$y_2 = 2x + 1$$

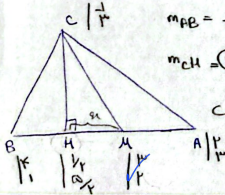
$$y_2 = 2x + 1$$

$$y_2 = 2x + 1$$

$$y_2 = 2x + 1$$

$$y_2 = 2x + 1$$

المعادن : ياتوم دكتور



$$m_{AB} = \frac{1-1}{-1-1} = \frac{0}{-2} = 0$$

$$m_{CH} = 1$$

$$y-1 = 1(x-1) \Rightarrow y = x+1$$

$$y = x+1$$

$$y = x+1$$

$$|HM| = \sqrt{(1-\frac{1}{2})^2 + (1-\frac{1}{2})^2} = \sqrt{(\frac{1}{2})^2 + (\frac{1}{2})^2} = \sqrt{\frac{1}{2} + \frac{1}{2}} = \sqrt{1} = 1$$

المعادن : ياتوم دكتور

$$(1-m)y = (m+1)x + 1 \rightarrow m' = m+1$$

$$(a-m)y = (a-m)x + 1 \rightarrow m' = (a-m)$$

$$m' = \frac{m+1}{m-m}$$

$$m' = \frac{m-m}{a-m}$$

$$m_1 \times m_2 = 1 \rightarrow \left(-\frac{m-m}{a-m} \right) \times \left(\frac{m+1}{m-m} \right) = -1 \Rightarrow \frac{m-m+m-m}{-m-m+1+m-m} = 1$$

$$m-m+m-m = -m-m+1+m-m \rightarrow \Delta < 0 \rightarrow m \text{ دكتور}$$

$\begin{cases} x+y=1 \\ y=x-1 \end{cases} \rightarrow \begin{cases} x=1 \\ y=1 \end{cases} \rightarrow (1,1)$
 $\begin{cases} y=x-1 \\ x+y=1 \end{cases} \rightarrow \begin{cases} y=x-1 \\ x+y=1 \end{cases} \rightarrow \begin{cases} x=\frac{1}{2} \\ y=\frac{1}{2} \end{cases} \rightarrow (\frac{1}{2}, \frac{1}{2})$

$\frac{AM}{AH} = \frac{(\frac{1}{2})}{(\frac{1}{2})} = 1$

$\begin{cases} x+y=1 \\ x+y=1 \end{cases} \rightarrow \begin{cases} x=0 \\ y=-1 \end{cases} \rightarrow (0,-1)$
 $AM = \sqrt{(\frac{1}{2})^2 + (-1)^2} = \frac{\sqrt{5}}{2}$

$AM = \sqrt{(\frac{1}{2})^2 + (-1)^2} = \frac{\sqrt{5}}{2}$
 $AH = \sqrt{(1-1)^2 + (1-1)^2} = 0$

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

$\text{Distance} = \frac{|0+0-b|}{\sqrt{\frac{1}{4}+1}} = \frac{|b|}{\sqrt{\frac{5}{4}}} = \frac{|b|}{\frac{\sqrt{5}}{2}} = \frac{2|b|}{\sqrt{5}} = \frac{2}{\sqrt{5}} \Rightarrow b = \pm \sqrt{5}$

$|AB| = \sqrt{(1-0)^2 + (0-b)^2} \Rightarrow AB = \sqrt{1+b^2} = \sqrt{1+5} = \sqrt{6}$

$my - bx = km \Rightarrow y = \frac{km}{m} + \frac{y}{m} \Rightarrow x = -\frac{m}{k}$

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

$\rightarrow \left| -\frac{1}{1-m} - \left(-\frac{m}{1} \right) \right| = \frac{1}{1-m} \rightarrow \frac{-m^2 + m - 1}{1-m} = \pm \frac{1}{1-m}$

$m = 1 \quad m = -1 \quad m = -1 \Rightarrow 1(1-\sqrt{2})(-1+\sqrt{2}) = -1$

$y = 1x - 1$

$x=0 \Rightarrow y = 1(0) - 1 = -1 \rightarrow A(0,-1)$

$x=1 \Rightarrow y = 1(1) - 1 = 0 \rightarrow B(1,0)$

$m = \frac{-1 - (-1)}{1 - 0} = \frac{0}{1} = 0$

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

$A'(0,b)$

$(1,r)$

$d = \frac{|1-r+a|}{\sqrt{1+1}} = \frac{r}{\sqrt{2}}$

$1+rd = a \rightarrow 1+r\sqrt{2} = a$

$r+rd = b \rightarrow r+\sqrt{2}r = b$

$y = x+a$

$r(1+\sqrt{2}) - (1+\sqrt{2})$

$r+\sqrt{2}r - 1 - \sqrt{2}r =$

$r+\sqrt{2}r$