

$$m = \frac{1+4}{1-1} = -V \rightarrow y = -Vx + b \xrightarrow{|_n} 1 = -1 + b \rightarrow b = 2 \quad y = -Vx + 2 \quad (1)$$

$$b = 2 \quad m' = \frac{1}{V} \rightarrow 1 = \frac{1}{V} + b \quad b = \frac{1}{V} \quad y = \frac{x}{V} + \frac{1}{V} \quad (5)$$

Diagram: A triangle with vertices A, B, C. A line segment BC is drawn. The distance from A to BC is labeled as h . The distance from B to C is labeled as a . The distance from A to B is labeled as c . The distance from A to C is labeled as b .

$$BC_{\text{دور}} = \sqrt{(-1+1)^2 + (1-V)^2} = a$$

$$AH_{\text{دور}} = \frac{|1+1-\frac{a}{V}|}{\sqrt{\frac{10}{9}}} = \frac{\frac{10}{V}}{\frac{a}{V}} = 2$$

$$y_{BC} = -\frac{1}{V}x + b \rightarrow y_{BC} = -\frac{1}{V}x + \frac{1}{V}$$

$$y = V + x \quad y = \frac{a}{V}x + 1 \quad \text{دور} = \frac{|V-1|}{\sqrt{1+1}} = \frac{4\sqrt{2}}{a}$$

$$\text{مساحت} = \frac{4\sqrt{2}}{10} \times \frac{4\sqrt{2}}{10} \times \pi = \frac{1}{10}\pi$$

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$$M = \left| \frac{\frac{1+1}{V} - 1}{\frac{1+1}{V} - 1} \right| \rightarrow M = \frac{1}{V} \quad H = \frac{1}{V} \quad d = \sqrt{\left(\frac{1}{V}\right)^2 + \left(\frac{1}{V}\right)^2} = \frac{\sqrt{2}}{V}$$

$$y_{AB} = x + b \rightarrow y_{AB} = x + a \quad y_{CH} = x + b \rightarrow y_{CH} = x - 1 \rightarrow x = \frac{V}{V} \quad y = \frac{1}{V}$$

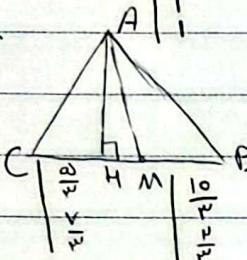
$$y = \frac{V}{a-m} = \frac{(Vm-1)}{a-m} \quad y = \frac{1}{Vm-1} + \frac{m+1}{Vm-1}x$$

$$\frac{m+1}{Vm-1} = \frac{a-m}{Vm-1} \rightarrow 10m - 1m^2 - 10 + 1m = 1m^2 - 1m + 1m - 1$$

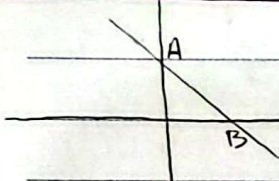
$$am^2 - 1m + 1 = 0 \rightarrow \Delta < 0 \rightarrow \text{لا يوجد حلا حقيقي}$$

تقاطع خطوط
 $AB \perp AC \Rightarrow \frac{p}{r} - \frac{q}{r} = r\alpha - 1 \rightarrow \begin{bmatrix} 1 \\ 1 \end{bmatrix} \quad BC \perp AB \Rightarrow \frac{p}{r} - \frac{q}{r} = r - \alpha \rightarrow \begin{bmatrix} \omega \\ -1 \end{bmatrix}$ (4)

$AC \perp BC \Rightarrow r - \alpha = r\alpha - 1 \rightarrow \begin{bmatrix} \frac{p}{r} \\ \frac{q}{r} \end{bmatrix}$



$$\frac{d_{AM}}{d_{AH}} = \frac{\sqrt{(\frac{p}{r})^2 + (\frac{1}{r})^2}}{1 + 1 - r} = \frac{\frac{\omega\sqrt{r}}{r}}{\frac{\sqrt{r}}{1}} = \frac{\omega}{r}$$



$$\sqrt{r_0} = \frac{|b|}{\sqrt{\frac{1}{r} + \frac{r}{r}}} \rightarrow r\sqrt{\omega} = \frac{r b}{\sqrt{\omega}} \rightarrow b = \omega$$

$y = -\frac{r}{r}x + b \quad A|y \rightarrow y = 0 + \omega \rightarrow A|0$ (5)

$B|0 \rightarrow 0 = -\frac{r}{r} + \omega \rightarrow r = 1 \quad B|0$

$$d_{AB} = \sqrt{(0-1)^2 + (\omega)^2} = \sqrt{1 + \omega} = \omega\sqrt{\omega}$$

$y = \frac{r}{m}x + r \quad y=0 \rightarrow x = -\frac{r}{m} \rightarrow \left| -\frac{r}{1-m} - \left(-\frac{m}{r}\right) \right| = \frac{\omega}{r} \rightarrow \frac{-m^2 + m - r}{r - rm} = \frac{\omega}{r}$ (6)

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

$\frac{r \times \square}{r} = \frac{\omega}{r} \rightarrow m = r / m = -r - \sqrt{\omega} / m = -r + \sqrt{\omega}$ (5)

$\square = \text{مساحة المثلث} = \frac{\omega}{r} \quad \text{ضرب} = r(-r - \sqrt{\omega})(-r + \sqrt{\omega}) = \boxed{-r}$
 $r - \omega = -1$

$y = r\alpha - r \quad H|y \rightarrow H|y \quad M \text{ منسوب بـ } H \rightarrow x' = r - 1 = r \quad y' = -r + 1 = -r \quad H'|y$ (7)

$y' = r\alpha + b \quad -r = r + b \rightarrow b = -9 \quad \boxed{y' = r\alpha - 9}$ (5)

$A|y \quad y = x + \omega \quad H: x + \omega = -x + r \rightarrow H|y \rightarrow A'|y \rightarrow A'|y$ (10)

$a = -r \quad b = 4 \rightarrow rb - a = 1r + r = \boxed{1\omega}$ (5)