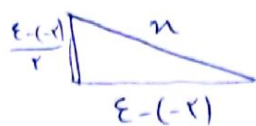


$A \mid \begin{smallmatrix} r \\ k \end{smallmatrix} \quad B \mid \begin{smallmatrix} \epsilon \\ m \end{smallmatrix}$
 $\frac{1}{r} = \frac{\epsilon}{m}$
 طول المثلث

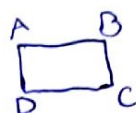


$n = \sqrt{r^2 + \epsilon^2} = r\sqrt{5}$

طول المثلث = ? $n^2 = \epsilon \omega$

$A \mid \begin{smallmatrix} -1 \\ \epsilon \end{smallmatrix} \quad B \mid \begin{smallmatrix} r \\ \end{smallmatrix}$
 $C \mid \begin{smallmatrix} u \\ y \end{smallmatrix} \quad D \mid \begin{smallmatrix} -1-u \\ y+r \end{smallmatrix}$

$m_{AC} = m_{DB} \rightarrow -1 + n = -1 + r$



$n-1 = -u+r$
 $n = \frac{r}{r}$

$m_{AB} = -\frac{1}{m_{AC}}$

$\frac{\epsilon-1}{-1-r} = -\frac{1}{m_{AC}} \rightarrow m_{AC} = \frac{\epsilon}{r}$

$AC = \sqrt{\frac{r\omega}{\epsilon} + \frac{100}{9}} = \frac{r\omega}{4}$

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

طول المثلث = ? $r(AB+AC) = \frac{\omega\omega}{r}$

$rmn + (m-1)y = r \rightarrow y = \frac{-rm}{m^2-1}n + \frac{r}{m^2-1}$

$\frac{y}{n} = \tan(\alpha) = \sqrt{r}$

$\frac{y}{n} = \tan(\alpha) = \sqrt{r}$

$\frac{-rm}{m^2-1} = \sqrt{r} \rightarrow \sqrt{r}(m^2 + rm - \sqrt{r}) = 0$

$m = \begin{cases} \frac{1}{\sqrt{r}} \\ -\frac{r}{\sqrt{r}} \end{cases}$

طول المثلث = ? $\frac{1}{\sqrt{r}} - \left(\frac{-r}{\sqrt{r}}\right) = \frac{\epsilon}{\sqrt{r}} = \frac{\epsilon\sqrt{r}}{r}$

$A \mid \begin{smallmatrix} 1 \\ q \end{smallmatrix} \quad B \mid \begin{smallmatrix} r \\ r \end{smallmatrix} \quad C \mid \begin{smallmatrix} v \\ 11 \end{smallmatrix}$

$BC: y = rm - r \mid q \rightarrow \frac{|9-r+r|}{\sqrt{r^2+1r^2}} = \frac{1}{\sqrt{2}} = \frac{r\omega}{2}$

$BC: \frac{11-r}{v-r} = r$

~~Handwritten scribbles and crossed-out text.~~

$\overline{AH}$ طول المثلث = $r\sqrt{5}$

$AB: y + rm = v$

$AC: y - rm = 1v$

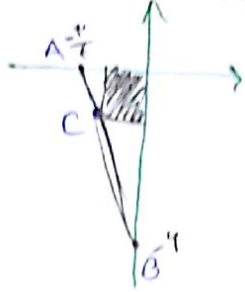
$BC: ry - vn = -1v$

طول المثلث : $v - rm = \frac{vm-1v}{r}$

$B \quad n=r \rightarrow y=1$

$\overline{BAC} \rightarrow \frac{|1v+9-1|}{\sqrt{r^2+\epsilon^2}} = \frac{r}{\omega}$

$\overline{BH}$ طول المثلث = $\frac{r}{\omega} = \epsilon, \epsilon$



برابر $C \neq AB$ و $y \cdot n$

$A | -\frac{5}{2} \quad B | -4$

$AB: y = -n - 4$

$-n - 4 = n$

$n = -\frac{4}{2} \quad y = -\frac{4}{2}$

طول وتر مربع حاصل؟ $= \sqrt{(\frac{5}{2})^2 + (\frac{4}{2})^2} = \frac{\sqrt{41}}{2}$

دایره $y - an = 1 \quad y = an + 1$

قطر $ay - n = a - 1 \quad y = \frac{1}{a}n + \frac{a-1}{a}$

برابر $a = \frac{1}{a} \quad a = 1 \rightarrow y = n + 1$
 $a = -1 \rightarrow y = n$

رأس $y = 1 \rightarrow n = 1$
قطر $a = 1$ و $a = -1$
 $y = n + 1$
 $y = n$

قطر $a = 1 \rightarrow y = -n + 1$
 $a = -1 \rightarrow y = -n + 2$
 $h = \frac{1}{\sqrt{1+1}} = \frac{\sqrt{2}}{2}$

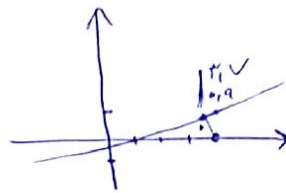
مساحت $= \frac{\sqrt{2}}{2} \times \frac{\sqrt{2}}{2} = \frac{1}{2}$

ع $n - 2y = 1$

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

فاصله A تا خط $= \frac{1}{\sqrt{2}}$

ارتفاع با قاعده برابر یا مختلف تا قطر الزامی



مساحت $S = \frac{1}{2} \times \frac{\sqrt{2}}{2} \times \frac{\sqrt{2}}{2} = \frac{1}{4}$

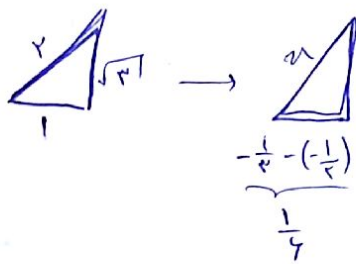
مساحت $S = \frac{1}{2} \times 0.9 \times 2 = \frac{0.9}{1}$

مساحت $= \frac{1}{2} \times 2 = 1$

$\frac{1}{a} \quad \frac{1}{b}$

در رأس و قطر مربع

در رأس و قطر مربع



$n = 2 \times \frac{1}{4} = \frac{1}{2}$

طول وتر مربع $n \times \sqrt{2} = \frac{\sqrt{2}}{2}$

خط L

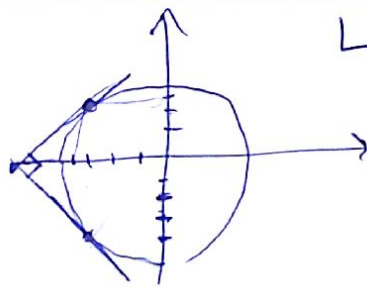
معادله برای این خط

$L: y = \frac{5}{2}x - 4$

خط عمود بر L در رأس

برای دایره معادله

$\frac{5}{2}x - 4 = \frac{5}{2}x + \frac{4}{2} \rightarrow x = -1$
 $y = -1$



$L: y = \frac{5}{2}x - 4$

$-4 = \frac{5}{2}x - 4 \rightarrow b = -\frac{4}{2}$

$L: y = \frac{5}{2}x - \frac{4}{2}$

$L': y = \frac{5}{2}x + b'$

$2 = \frac{5}{2}x - 4 + b' \rightarrow b' = \frac{4}{2}$

$L': y = \frac{5}{2}x + \frac{4}{2}$

فاصله $= -1 - (-1) = 0$