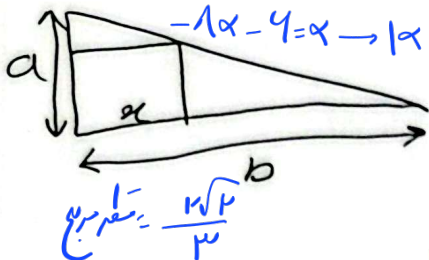


$y = -1x - 4$
 $x = \frac{ab}{a+b} \Rightarrow x = \frac{4 \times \frac{1}{4}}{\frac{1}{4} + \frac{1}{4}} = \frac{\frac{1}{1}}{\frac{2}{4}} = \frac{1}{2}$
 $-1x - 4 = x \rightarrow |x| = \frac{4}{2}$

 $\Rightarrow S = \left(\frac{1}{2}\right)^2 = \left(\frac{1}{4}\right)$

$y = \frac{x+a-1}{a}$ $y = ax+1$ $ax = \frac{x}{a} \Rightarrow a=1$
 $a = \frac{1}{x-1}$
 $AB = \frac{1}{\sqrt{2}}$
 $BD = \frac{1}{\sqrt{2}}$
 $S = \frac{1}{2}$
 $y = x$ $y = x+1$

 $S = 1 \times 1 = 1$

$AH = \frac{|1-0-1|}{\sqrt{1+9}} = \frac{1}{\sqrt{10}}$
 $HB = \frac{9}{\sqrt{10}}$
 $S = \frac{1}{2} \times \frac{1}{\sqrt{10}} \times \frac{9}{\sqrt{10}} = \frac{9}{20} = 0,45$

$a = \frac{a-b}{-\frac{1}{4} + \frac{1}{4}} = \frac{a-b}{-\frac{1}{4}} = \boxed{4a-4b = -1}$
 $\Rightarrow a-b = -\frac{\sqrt{2}}{4} \Rightarrow D = \sqrt{(a-b)^2 + \left(-\frac{1}{4} + \frac{1}{4}\right)^2}$
 $\Rightarrow \sqrt{\frac{2}{16} + \frac{1}{16}} = \sqrt{\frac{3}{16}} = \frac{\sqrt{3}}{4}$
 $\text{قطر} = \frac{\sqrt{3}}{4}$

$a = \frac{-4-0}{-3-0} = \frac{4}{3}$ $y = \frac{4}{3}x$ $d = \sqrt{9+16} = 5$
 $L: y = \frac{4}{3}x - \frac{4}{3}$
 $L': y = \frac{4}{3}x + \frac{4}{3}$
 $a = -1$
 $y = -\frac{4}{3}x$
 $y = \frac{4}{3}x$
 $y_A + y_C = y_B + y_D$
 $x_A + x_C = x_B + x_D$
 $x_A + 0 = -3 + 4 \Rightarrow (1, -1)$
 $y_A + 0 = -1$
 $-1 \times (-1) = 1$

$$y = -\frac{1}{2}x + b$$

$$B = -2 + b = m$$

$$A = 1 + b = K$$

$$d = \sqrt{(24)^2 + (\frac{m-K}{2})^2} = d = \sqrt{45} = 3\sqrt{5}$$

$$S = d^2 = 45$$

$$x = -x - a$$

$$2x = a \rightarrow x = \frac{a}{2}$$

$$mm' = -1 \Rightarrow \frac{3}{-2} \times \frac{y}{\frac{y}{2}} = -1$$

$$\Rightarrow y = 2$$

$$CD = \sqrt{16 + 9} = 5$$

$$AD = \sqrt{\frac{9}{4} + \frac{16}{4}} = \frac{5}{2}$$

$$محیط = \frac{a}{2} + \frac{a}{2} + a + a = 15$$

$$(mx + (m^2 - 1)y = 3 \rightarrow (m^2 - 1)y = -2mx + 3 \rightarrow y = \frac{-2m}{(m^2 - 1)}x + \frac{3}{m^2 - 1}$$

$$\frac{-2m}{m^2 - 1} = \sqrt{3} \rightarrow -2m = \sqrt{3}m^2 - \sqrt{3} \Rightarrow m^2 + \frac{2}{\sqrt{3}}m - 1 = 0$$

$$m = \frac{-\frac{2}{\sqrt{3}} \pm \frac{4}{\sqrt{3}}}{2} = \frac{1}{\sqrt{3}} \text{ or } -\sqrt{3}$$

افضل $\frac{1 + \sqrt{3}}{\sqrt{3}} = \frac{1 + \sqrt{3}}{\sqrt{3}}$

$$a_{BC} = \frac{\Delta y}{\Delta x} = \frac{3 - 11}{2 - 7} = \frac{-8}{-5} = \frac{8}{5} \Rightarrow a_{AH} = \frac{1}{2}$$

$$AH = -\frac{1}{2}x + \frac{19}{4}$$

$$BC = 2x - 3$$

$$d = \frac{|2 - 3 - 9|}{\sqrt{1 + 4}} = \frac{10}{\sqrt{5}} = \frac{10\sqrt{5}}{5} = 2\sqrt{5}$$

$$a_{AC} = \frac{3}{4} \quad AC = y = \frac{3}{4}x + \frac{11}{4}$$

$$-2x + 11 = \frac{3}{4}x - \frac{19}{4} \Rightarrow -\frac{11}{4}x = -\frac{42}{4} \Rightarrow x = 2$$

نقطه B = نقطه تقاطع AB و BC

$$\Rightarrow B = (2, 3)$$

$$BH = \frac{|\frac{3}{4} + \frac{11}{4} - 3|}{\sqrt{\frac{16}{16} + \frac{16}{16}}} = \frac{\frac{11}{4}}{\frac{\sqrt{2}}{2}} = \frac{11}{2\sqrt{2}}$$

$$\frac{11}{2\sqrt{2}} = \frac{11\sqrt{2}}{4}$$

$$\begin{cases} -2y - 4x = -14 \\ 2y - 4x = -14 \end{cases} \Rightarrow \begin{cases} -4x = -28 \\ -4x = -28 \end{cases} \Rightarrow x = 7$$

$$x = 7, y = 1$$

$$BH = \frac{11}{2\sqrt{2}}$$