

①

$$-\frac{1}{r}x + b = m \quad -\frac{1}{r}x - r + b = n$$

②

$$AB = \sqrt{(r+r)^2 + (-r+b-1-b)^2} = \sqrt{16+9} = \sqrt{25}$$

$$S = \sqrt{25} = 5$$

③

$$AB = \sqrt{(r+1)^2 + (1-\varepsilon)^2} = \sqrt{16+9} = 5$$

④

$$DC = \sqrt{(-1-m-n)^2 + (y+r-y)^2} = 5$$

$$-2m - 1 = \varepsilon \quad m = -\frac{\varepsilon}{2}$$

$$-2m - 1 = -\varepsilon \quad m = \frac{\varepsilon}{2}$$

$$m_{AB} = \frac{\varepsilon - 1}{-1 - r} = -\frac{r}{\varepsilon}$$

$$m_{BC} = \frac{\varepsilon}{r} \quad \frac{y-1}{\frac{\varepsilon}{r} - 1} = \frac{\varepsilon}{r} \rightarrow y = -1 \quad C\left(\frac{r}{\varepsilon}, -1\right)$$

$$\frac{y-1}{-\frac{\varepsilon}{r} - 1} = \frac{\varepsilon}{r} \rightarrow y = -\frac{19}{r} \quad C\left(-\frac{\varepsilon}{r}, -\frac{19}{r}\right)$$

$$CB = \sqrt{\left(\frac{r}{\varepsilon} - r\right)^2 + (-1-1)^2} = \sqrt{\frac{9}{\varepsilon} + 4} = \frac{5}{r}$$

$$CB = \sqrt{\left(-\frac{5}{r} - r\right)^2 + \left(-\frac{19}{r} - 1\right)^2} = \sqrt{\frac{121}{\varepsilon} + \frac{11\varepsilon}{9}} = \frac{5}{r}$$

$$P = 2\left(\frac{5}{r} + 5\right) = 15$$

۱	۲	۳	۴	۵	۶
۷	۸	۹	۱۰	۱۱	۱۲
۱۳	۱۴	۱۵	۱۶	۱۷	۱۸
۱۹	۲۰	۲۱	۲۲	۲۳	۲۴
۲۵	۲۶	۲۷	۲۸	۲۹	۳۰

$$y = \frac{-2m + 4}{m^2 - 1}$$

$$\frac{-2m}{m^2 - 1} = \sqrt{3}$$

$$(1, \sqrt{3})$$

$$\sqrt{3}m^2 + 2m - \sqrt{3} = 0 \quad \Delta = \sqrt{4 + 12} = 4 \quad m = \frac{-2 \pm 4}{2\sqrt{3}} = \frac{1}{\sqrt{3}} \text{ or } -1$$

$$\sqrt{3} + \frac{\sqrt{3}}{3} = \frac{4\sqrt{3}}{3}$$

$$m_{BC} = \frac{11 - 4}{1 - 4} = \frac{7}{-3} = -\frac{7}{3} \rightarrow y = -\frac{7}{3}x + b$$

(3)

$$y = -\frac{7}{3}x + 4 \rightarrow y = -\frac{7}{3}x + 4$$

$$b = 4$$

(2)

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

(5)

$$\begin{cases} y + 2m - 1 = 0 \\ 2y - 11m + 19 = 0 \\ 11m - 22 = 0 \end{cases}$$

$$m = 2, y = 1$$

$$BH = \frac{|4 - 9 - 11|}{\sqrt{1 + 4}} = \frac{16}{\sqrt{5}}$$

(2)

$$\frac{m}{\frac{1}{2}} = \frac{4 - m}{4} \Rightarrow 4m = \frac{4}{1} - \frac{1}{2}m \Rightarrow \frac{9}{2}m = \frac{4}{1}$$

(4)

$$m = \frac{4}{9} = \frac{4}{9} \quad \text{مساحت} = \frac{1}{2} \sqrt{2}$$

(2)

1

تیر

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$$y = ax + 1$$

$$ay = ax + a - 1 \rightarrow y = \frac{1}{a}x + \frac{a-1}{a} \quad 1 + \frac{a-1}{a}$$

$$a = \frac{1}{a} \quad a^2 - 1 = 0 \quad a = \pm 1$$

$$y = -x + 1 \quad y = -x + 1 \quad (1, 2) \quad y = -1 + 2x$$

$$y = x + 1 \quad y = x \rightarrow x = 1 + 1 \quad \checkmark$$

$$\frac{y - x - 1 = 0}{y - x = 0} \quad \frac{|C - C'|}{\sqrt{a^2 + b^2}} = \frac{|0 + 1|}{\sqrt{2}} = \frac{\sqrt{2}}{2}$$

$$\sqrt{a^2 - \left(\frac{\sqrt{2}}{2}\right)^2} = \sqrt{2 - \frac{1}{2}} = \frac{\sqrt{2}}{2} \quad S = \frac{\sqrt{2}}{2} \times \frac{\sqrt{2}}{2} = \frac{1}{2}$$

$$AB = \frac{8 - 0 - 1}{\sqrt{10}} = \frac{7}{\sqrt{10}} \quad BH^2 + AH^2 = AB^2 \quad (1)$$

$$S = \frac{1}{2} \times \frac{7}{\sqrt{10}} = \frac{7}{2\sqrt{10}} \quad BH^2 = \frac{11}{10} \quad BH = \frac{1}{\sqrt{10}} \quad (2)$$

روز تبلیغ و اطلاع رسانی دینی - روز اصناف

2

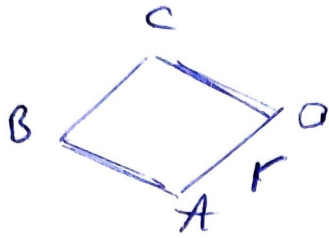
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جمعه

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$$m = \sqrt{3} \rightarrow \frac{b-a}{-\frac{1}{a} + \frac{1}{b}} \quad b-a = \frac{\sqrt{3}}{9} \quad (1)$$

$$\sqrt{\left(\frac{\sqrt{3}}{9}\right)^2 + \frac{1}{36}} = \sqrt{\frac{8}{36}} = \frac{2}{3} = \frac{1}{\sqrt{3}} \quad \text{قصر} \quad \left(\frac{\sqrt{3}}{2}\right)$$



تير

ستنه

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$$r = \sqrt{(0+r)^2 + (0+\varepsilon)^2} = a \quad M_{\text{at } A} = \frac{\varepsilon}{r}$$

10
4

$$M_{BC} = \frac{\varepsilon}{r} \rightarrow BC \Rightarrow y + \frac{\varepsilon}{r} m + b \Rightarrow cy - \varepsilon m - cb = 0$$

$$\frac{|cy - \varepsilon m - cb|}{a} = 0 \Rightarrow -cb < ra \quad b = \frac{ra}{r}$$

$$BC \Rightarrow y + \frac{\varepsilon}{r} m + \frac{ra}{r} \quad BC: -\varepsilon m + cy + ra = 0$$

$$M_{AB} = -\frac{r}{\varepsilon} \rightarrow y + \varepsilon = -\frac{r}{\varepsilon} (m + r) \Rightarrow$$

$$y = -\frac{r}{\varepsilon} m - \frac{ra}{\varepsilon} \rightarrow AB: cm + \varepsilon y + ra = 0$$

$$m = \frac{-ra - 100}{-14 - 9} = -V$$

$$y = \frac{100 - ra}{-14 - 9} = -1$$

$$-1x - V = V$$