

$$\left. \begin{aligned} -\frac{1}{r} &= \frac{m-k}{\varepsilon+r} \rightarrow m-k = -r \\ \overline{AB} &= \sqrt{(\varepsilon+r)^2 + (m-k)^2} = \sqrt{\varepsilon\delta} \end{aligned} \right\} S = \overline{AB} \times \overline{AB} = \varepsilon\delta \quad -1$$

$$\overline{AB} = \sqrt{(1+r)^2 + (\varepsilon-1)^2} = \delta \quad -2$$

$$m_{AB} = \frac{\varepsilon-1}{-1-r} = -\frac{r}{\varepsilon} \rightarrow m_{BC} = \frac{\varepsilon}{r} = \frac{y-1}{x-r} \Rightarrow y=1$$

$$\overline{CD} = \delta = \sqrt{(1+r\chi)^2 + r^2} \Rightarrow 1+r\chi = \varepsilon \Rightarrow \chi = \frac{r}{r}$$

$$C\left(\frac{r}{r}, 1\right)$$

$$P = \frac{\delta}{r} + \frac{\delta}{r} + \delta + \delta = 4\delta$$

$$\overline{BC} = \sqrt{\left(r - \frac{r}{r}\right)^2 + (r-1)^2} = \frac{\delta}{r}$$

$$y = \frac{-rm}{mr-1} + \frac{r}{mr-1} \rightarrow m = \text{tg} \angle \Rightarrow \sqrt{r} = \frac{-rm}{mr-1} \quad -3$$

$$\sqrt{r}mr + rm - \sqrt{r} = 0 \rightarrow m = \frac{-r \pm \varepsilon}{r\sqrt{r}} \quad \left\{ \begin{aligned} \frac{-r}{\sqrt{r}} &= -\sqrt{r} \\ \frac{r}{r\sqrt{r}} &= \frac{\sqrt{r}}{r} \end{aligned} \right.$$

$$mr - m_1 = \frac{\sqrt{r}}{r} - \sqrt{r} = -\frac{r\sqrt{r}}{r}$$

$$\overline{BC}: m = \frac{11-r}{v-r} = \frac{1}{\varepsilon} = r \rightarrow y = r\chi + h \rightarrow h = -r \quad -4$$

$$BC: y = r\chi - r \rightarrow y - r\chi + r = 0$$

$$AH = \frac{|9 - r + r|}{\sqrt{1+\varepsilon}} = \frac{1}{\sqrt{\delta}} = r\sqrt{\delta}$$

$$AB: y + r\chi = v \rightarrow -ry - \varepsilon\chi = -1\varepsilon \quad -5$$

$$BC: ry - v\chi = -19 \quad \begin{aligned} ry - v\chi &= -19 \\ \chi &= r, y=1 \end{aligned} \quad A(r, 1)$$

$$BH = \frac{|\varepsilon - 9 - 1v|}{\sqrt{1+9}} = \frac{r}{\delta} = \varepsilon/\varepsilon$$

$$m = \frac{-y-0}{0+r} = -1 \rightarrow y = -1\chi - y \rightarrow \chi = \frac{-y}{r} \quad A\left(-\frac{y}{r}, -\frac{y}{r}\right) \quad -6$$

$$\overline{AO} = \sqrt{\left(\frac{y}{r}\right)^2 + \left(\frac{y}{r}\right)^2} = \frac{y}{r}\sqrt{2}$$

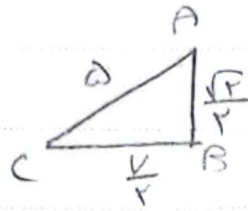
-V

$$y = ax + 1 \quad m = m' \quad a = \frac{1}{a} \rightarrow a = 1 \quad \begin{cases} y = x + 1 \\ y = x \end{cases}$$

$$y = \frac{x}{a} + \frac{a-1}{a}$$

$$\overline{AC} = \Delta = \sqrt{x^2 + y^2} \Rightarrow x = \frac{\Delta}{\sqrt{2}}$$

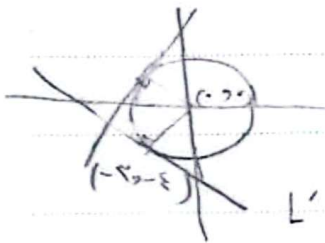
$$AB = \frac{|C - C'|}{\sqrt{2}} = \frac{1}{\sqrt{2}} = \frac{\sqrt{2}}{2}$$



$$S = \frac{V}{r} \times \frac{\sqrt{2}}{2} = \frac{V\sqrt{2}}{2}$$

$$\sqrt{2} = \frac{b-a}{-\frac{1}{2} + \frac{1}{2}} = \frac{b-a}{\frac{1}{4}} \rightarrow b-a = \frac{\sqrt{2}}{4} \rightarrow AB = \sqrt{\left(\frac{\sqrt{2}}{4}\right)^2 + \left(\frac{1}{4}\right)^2} = \frac{\sqrt{5}}{4}$$

$$\text{مساحة} = \sqrt{2} AB = \left(\frac{\sqrt{2}}{2}\right)$$



$$m_L = \frac{2}{3}, \quad m_{L'} = -\frac{3}{2}$$

$$L: y = -\frac{3}{2}x + h \rightarrow h = -\frac{3\omega}{2} \Rightarrow \boxed{y = -\frac{3}{2}x - \frac{3\omega}{2}}$$

$$L': y = \frac{2}{3}x + h \rightarrow \omega = \frac{|h|}{\sqrt{\frac{4}{9} + \frac{1}{4}}} = \frac{h}{\frac{5}{6}} \Rightarrow h = \frac{5\omega}{6}$$

$$\Rightarrow \boxed{L': y = \frac{2}{3}x + \frac{5\omega}{6}}$$

$$\star \star \Rightarrow \frac{3\omega}{12}x = \frac{5\omega}{12} \rightarrow \begin{cases} x = -1 \\ y = -1 \end{cases}$$

$$\boxed{xy = 1}$$