

$$y - y_0 = m(x - x_0) \rightarrow y - k = -\frac{1}{r}(m + r) \rightarrow y = -\frac{1}{r}x + k - 1 \quad (1)$$

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

$$\rightarrow k - m = r \rightarrow AB = \sqrt{(x_A - x_B)^2 + (y_A - y_B)^2} \rightarrow AB = \sqrt{r^2 + a^2}$$

$$S = F\omega$$

$$x_A + x_B = x_C + x_D \rightarrow r m = r \rightarrow m = \frac{r}{r} \quad (2) \quad BC \perp AB$$

$$m_{AB} = -\frac{r}{k} \quad (3) \rightarrow m_{BC} = \frac{k}{r} = \frac{y-1}{-\frac{r}{r}} \rightarrow y = -1 \rightarrow AB = \sqrt{9+16} = 5$$

$$BC = \sqrt{r^2 + 9} = \frac{a}{r}$$

$$\rightarrow \text{Area} = r(AB + BC) = 10$$

$$m = \tan 45^\circ = \sqrt{r} \rightarrow r m x + (m^2 - 1)y = r \rightarrow \frac{-r m}{m^2 - 1} = \sqrt{r} \Rightarrow \quad (4)$$

$$\sqrt{r} m^2 + r m - \sqrt{r} = 0$$

$$\rightarrow D = \frac{\sqrt{a^2 - 4bc}}{2a} = \frac{\sqrt{r^2 + 1r}}{\sqrt{r}} = \frac{r + \sqrt{r}}{r}$$

$$m_{BC} = \frac{11 - r}{r - r} = r \rightarrow y - r = r(x - r) \rightarrow y = r x - r^2 \rightarrow y - r m - r^2 = 0 \quad (5)$$

$$d = \frac{|ax_A + by_A + c|}{\sqrt{a^2 + b^2}} = \frac{10}{\sqrt{a}} = r\sqrt{a}$$

$$AB: ry + rm = 1r \rightarrow 11r = r^2 \rightarrow r = r, y = 1 \quad (6)$$

$$BC: -ry - vx = -1r \quad d = \frac{|ry - vx - 1r|}{\sqrt{r^2 + a}} = \frac{rr}{a}$$

$$\begin{aligned} & \text{Diagram: A right triangle ABC with altitude CE. M is on AC, N is on AB, and MN is parallel to AE.} \\ & \text{AMNE is a rectangle. } MN \parallel AE \text{ and } CE \perp AB \Rightarrow \frac{CM}{AC} = \frac{MN}{AB} \rightarrow \frac{y-x}{y} = \frac{r}{r} \\ & \rightarrow r\sqrt{x} = 1r \rightarrow x = \frac{r}{r} \\ & \rightarrow \text{Area} = x\sqrt{r} = \frac{r\sqrt{r}}{r} \end{aligned} \quad (7)$$

$$ay - n = a - 1 \rightarrow y = \frac{n}{a} + \frac{a-1}{a} \} \xrightarrow{\text{or}} \frac{1}{a} \leq a \rightarrow a^2 = 1 \quad (1)$$

$$y - an = 1 \rightarrow y = an + 1$$

$$\textcircled{1} a = 1 \rightarrow y = n, y = n + 1 \checkmark$$

$$\textcircled{2} a = -1 \rightarrow y = -n + 1, y = -n + 1 \quad \text{O.O.E} \rightarrow a = 1$$

$$y = \frac{|c-c'|}{\sqrt{a^2+b^2}} = \frac{1}{\sqrt{r}} \leq \frac{\sqrt{r}}{r} \quad \text{or} \quad \sqrt{n^2+y^2} = x \left(\frac{\sqrt{r}}{r}\right)^2 + n^2 = r \rightarrow$$

$$n = \frac{V}{\sqrt{r}} \leq \frac{V\sqrt{r}}{r} \rightarrow S = \frac{V\sqrt{r}}{r} \times \frac{\sqrt{r}}{r} = \frac{V}{r}$$

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

$$d = \frac{k-1}{\sqrt{1+q}} = \frac{r\sqrt{b}}{10}, m_A C = -r \rightarrow y = -r(n-k) = -rn + rk$$

$$\rightarrow C: \frac{n}{r} + \frac{1}{r} = -rn + rk \rightarrow 10n = rV \rightarrow n = \frac{rV}{10}, y = 0.9$$

$$\begin{bmatrix} r/V & r & 1 \\ 0.9 & 0 & 0 \\ 1 & 1 & 1 \end{bmatrix} \rightarrow 0.9 - r, 4 - 0 = -r, V \rightarrow S = \frac{1}{r} \times r, V = 1, r \rightarrow$$

$$m = \frac{b-a}{-\frac{1}{r} + \frac{1}{r}} = \sqrt{r} \rightarrow b-a = \frac{\sqrt{r}}{4} \quad a = \frac{\sqrt{(m_A - m_B)^2 + (y_A - y_B)^2}}{\frac{1}{4}} \cdot b-a \quad (2)$$

$$\rightarrow a = \sqrt{\frac{r}{r^4}} \leq \frac{r}{4} \leq \frac{1}{r} \rightarrow \mu_{00} = \frac{\sqrt{r}}{r}$$

$$r = 0: |A(-r, k)|_{\text{mod}} = \sqrt{r^2 + k^2} \leq d \rightarrow m_A = \frac{k}{r} \rightarrow m_L = -\frac{r}{k}$$

$$\textcircled{1} OA \parallel L' \rightarrow m_{L'} = \frac{k}{r} \quad OA: y = \frac{k}{r}x, L' = \frac{k}{r}x + C$$

$$C: |OA|_{\text{mod}} = r \leq d \rightarrow \frac{C}{\sqrt{1+\frac{r^2}{k^2}}} = \frac{rC}{d} \leq d \rightarrow C = \frac{r d}{r}$$

$$L' \text{ is } y = \frac{km}{r} + \frac{r d}{r}, L: y + r = -\frac{r}{k}(n+r) \rightarrow y = -\frac{r n}{k} - \frac{r d}{k}$$

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$$\rightarrow \left(\frac{F_{AB}}{\mu} + \frac{F_D}{\mu} = \frac{-F_n}{F} n_D - \frac{F_D}{F} \right) \times 12 \rightarrow 14m_B + 9m_B s - V_D - 100$$

$$\rightarrow x_B = -V, \quad y_B = -\frac{F_n}{\mu} + \frac{F_D}{\mu} s - 1 \rightarrow x_B \times y_B = V$$