

$$w \cdot n \cdot y = \Delta \varepsilon \rightarrow n \cdot y = 18$$

$$A = 30^\circ \rightarrow y = \frac{18n}{y} = 9n \rightarrow n^2 = 18 \rightarrow n = 3\sqrt{2}, AB = 9\sqrt{2}, AD = 6\sqrt{2}$$

$$L_{\text{مساحت}} = 12\sqrt{2} + 18\sqrt{2} = 4\sqrt{2}(9) = \boxed{36\sqrt{2}}$$

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$$S_{ABC} - S_{ADE} = 1, \forall \omega$$

$$v \times \omega \times \frac{L}{2} \times \sin A - v \times \varepsilon \times \frac{L}{2} = \frac{V}{\varepsilon}$$

$$1v/\omega \sin A - 1\varepsilon \sin A = \frac{v}{\varepsilon} \rightarrow \frac{v}{\omega} \sin A = \frac{v}{\varepsilon} \rightarrow \sin A = \frac{1}{\omega} \rightarrow \tan A = \frac{\sqrt{1-\frac{1}{\omega^2}}}{\frac{1}{\omega}} = \frac{\sqrt{\omega^2-1}}{\omega}$$

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$$\frac{|\sin \alpha|}{\cos \alpha} = \frac{-\sin \alpha}{\cos \alpha} \rightarrow \sin \alpha < 0$$

$$\frac{1}{\sqrt{\cos \alpha}} - \frac{\sin \alpha}{\cos \alpha} = \frac{1}{\cos \alpha} + \frac{\sin \alpha}{|\cos \alpha|} \rightarrow \frac{-\sin \alpha}{\cos \alpha} = \frac{\sin \alpha}{|\cos \alpha|}$$

$\cos \alpha < 0$

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$$\tan\left(\frac{\pi}{4} - \alpha\right) = \cot \alpha$$

$$y = a \cdot x + b \xrightarrow{\text{با } (1,0)} y = 2a + b \rightarrow a = \frac{-\pi}{\varepsilon}$$

$$\rightarrow \cot \alpha = -\frac{\pi}{\varepsilon} \rightarrow \cot \alpha = \boxed{\frac{-\varepsilon}{\pi}}$$

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$$\frac{w \cos(\pi \varepsilon \omega) - r \sin(\omega \omega)}{\sin(\pi \omega r) - \cos(\pi \omega r)} = \frac{w \cos\left(\frac{\pi \omega r}{r} - \pi r\right) - r \sin(\pi - \pi r)}{\sin(\pi + \pi r) - \cos\left(\frac{\pi \omega r}{r} + \pi r\right)}$$

$$= \frac{-w \sin(\pi r) - r \sin(\pi r)}{-\sin(\pi r) - \sin(\pi r)} = \frac{-\omega \sin(\pi r)}{-r \sin(\pi r)} = \boxed{\frac{\omega}{r}}$$

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$$\frac{\sin\left(\frac{\pi}{\mu} + \alpha\right) - \sin(\alpha - \frac{\pi}{\mu})}{|\tan \alpha - 1|} = \frac{\cos \alpha + \sin \alpha}{\frac{1}{\mu}}$$

$$= \frac{\frac{\mu}{\mu} - \frac{\sqrt{a}}{\mu}}{\frac{1}{\mu}} = \frac{\mu - \sqrt{a}}{\mu} \times \mu = \boxed{\frac{1 - \varepsilon \sqrt{a}}{\mu}}$$

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$$\sin \alpha = r \cos \alpha \rightarrow \frac{u}{y} = \frac{r z}{y} \rightarrow u = r z$$

$$y r = z r + \varepsilon z r \rightarrow y = \sqrt{a} z$$

$$\cos \alpha = \frac{-z}{\sqrt{a} z} = \boxed{\frac{-\sqrt{a}}{a}}$$



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$$\tan \varphi_0 = \sqrt{\mu} \quad \frac{-\mu m}{m^2 - 1} = \sqrt{\mu} \rightarrow \sqrt{\mu} m^2 - \sqrt{\mu} = -\mu m$$

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

$$\rightarrow m \begin{cases} \frac{-\mu}{\sqrt{\mu}} = -\sqrt{\mu} \\ \frac{1}{\sqrt{\mu}} = \frac{\sqrt{\mu}}{\mu} \end{cases} \rightarrow \left| \frac{\sqrt{\mu}}{\mu} + \sqrt{\mu} \right| = \frac{\sqrt{\mu} + \mu \sqrt{\mu}}{\mu} = \boxed{\frac{\varepsilon \sqrt{\mu}}{\mu}}$$

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$$-\frac{\pi}{\varepsilon} < u < \frac{\pi}{\varepsilon} \quad \tan\left(\frac{\pi}{\varepsilon} - u\right) = \frac{-m}{\mu + m}$$

$$\downarrow$$

$$-\frac{\pi}{\varepsilon} < -u < \frac{\pi}{\varepsilon} \quad \frac{\pi}{\varepsilon} > 0 < -u + \frac{\pi}{\varepsilon} < \frac{\pi}{\varepsilon}$$

$$\frac{1-m}{\mu+m} > 0 \quad \frac{-\mu}{-|\mu|} \rightarrow \boxed{(-\mu, 1)}$$

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$$\tan(\frac{\pi}{\mu}) \cos(\frac{\pi}{\mu}) + \tan(\frac{\pi}{\mu}) \sin(\frac{\pi}{\mu})$$

$$= -\sqrt{\mu} \times \frac{\sqrt{\mu}}{\mu} = \frac{\mu}{\mu} + \left(\frac{-\mu}{\mu}\right) = 0$$

$$\rightarrow \tan(\frac{\pi}{\mu}) \times \sin(\frac{\pi}{\mu}) = \sqrt{\mu} \times \frac{\sqrt{\mu}}{\mu} = \boxed{\frac{-\mu}{\mu}}$$

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