

$$(1) s = \mu x \times \mu x \times \sin 10 = 4x^2 \times \frac{1}{\mu} = \mu x^2 = \omega \epsilon \Rightarrow x^2 = \frac{\omega \epsilon}{\mu} \rightarrow x = \sqrt{\frac{\omega \epsilon}{\mu}} \quad (5)$$

$$P = \mu(x + x) = 1 \cdot x = 1 \cdot (\sqrt{\frac{\omega \epsilon}{\mu}}) = \sqrt{\frac{\omega \epsilon}{\mu}} \quad (5)$$

$$(2) S_{ABE} - S_{ADE} = \frac{1}{2} (AB) (AC) \sin A - \frac{1}{2} (AD) (AE) \sin A$$

$$= \frac{1}{2} \times \omega \times \nu \times \sin A - \frac{1}{2} \times \nu \times \epsilon \times \sin A \rightarrow \frac{\nu}{2} \sin A = \frac{\nu}{\epsilon} \rightarrow \sin A = \frac{1}{\nu} \rightarrow$$

$$\tan A = \frac{1}{\sqrt{\mu}} \quad (5)$$

$$(3) \frac{1}{\sqrt{\cos \alpha}} - \tan \alpha = \frac{1 + \sin \alpha}{|\cos \alpha|} \rightarrow \frac{1}{|\cos \alpha|} - \frac{\sin \alpha}{\cos \alpha} = \frac{1}{|\cos \alpha|} + \frac{\sin \alpha}{|\cos \alpha|}$$

$$\rightarrow -\cos \alpha = |\cos \alpha| \rightarrow \cos \alpha < 0$$

$$\frac{|\sin \alpha|}{\cos \alpha} = -\frac{1}{\cot \alpha} \rightarrow \frac{|\sin \alpha|}{\cos \alpha} = -\frac{\sin \alpha}{\cos \alpha} \rightarrow \sin \alpha < 0$$

$$\Rightarrow \left[ \begin{array}{l} \text{نقصان} \\ \text{نقصان} \end{array} \right] \quad (5)$$

مطلوبه

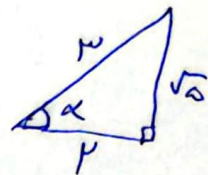
$$(4) \left[ \begin{array}{l} (x, y) \\ (a, b) \end{array} \right] \rightarrow m = -\frac{\mu}{\epsilon} \rightarrow \tan \alpha = -\frac{\mu}{\epsilon} \rightarrow \cot \alpha = -\frac{\epsilon}{\mu}$$

$$\tan \left( \frac{\pi}{2} - \alpha \right) = \cot \alpha = -\frac{\epsilon}{\mu} \quad (5)$$

$$(5) \left. \begin{array}{l} \angle A = \frac{\mu \pi}{\nu} - \mu \\ \angle B = \pi - \mu \\ \angle C = \pi + \mu \\ \angle D = \frac{\mu \pi}{\nu} + \mu \end{array} \right\} \rightarrow \frac{-\mu \sin \mu - \mu \sin \mu}{-\sin \mu - \sin \mu} = \frac{-\omega \sin \mu}{-\nu \sin \mu} = \frac{\omega}{\nu} \quad (5)$$

$$\textcircled{4} \quad \frac{\cos \alpha + \sin \alpha}{|\tan^{\mu-1}|} = \frac{\frac{\mu}{\mu} - \frac{\sqrt{\omega}}{\mu}}{\left| \left( -\frac{\sqrt{\omega}}{\mu} \right)^{\mu-1} \right|} = \frac{\mu - \sqrt{\omega}}{\frac{\mu}{\frac{1}{\epsilon}}} = \frac{\epsilon(\mu - \sqrt{\omega})}{\mu}$$

(5)



$$\textcircled{5} \quad \sin \alpha = \mu \cos \alpha \rightarrow \frac{\sin \alpha}{\cos \alpha} = \mu \rightarrow \tan \alpha = \mu \rightarrow \cos \alpha = \frac{1}{\sqrt{1+\mu^2}} = \frac{\sqrt{\omega}}{\omega}$$

(5)



Siehe 6.

$$\textcircled{1} \quad m = \tan \alpha = \sqrt{\mu}$$

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

$$-\frac{\mu m}{m^{\mu-1}} = \sqrt{\mu} \rightarrow \sqrt{\mu} m^{\mu-1} = \sqrt{\mu} \rightarrow -\mu m \rightarrow \sqrt{\mu} m^{\mu} + \mu m - \sqrt{\mu} = 0$$

$$m^{\mu} + \mu m - \mu = 0 \rightarrow m_1 = \frac{\mu}{\sqrt{\mu}} \quad m_2 = \frac{1}{\sqrt{\mu}}$$

$$\text{C} \text{D} \text{I} \text{O} \rightarrow \left| \frac{1}{\sqrt{\mu}} + \frac{\mu}{\sqrt{\mu}} \right| = \frac{\epsilon \sqrt{\mu}}{\mu}$$

$$\textcircled{9} \quad x \in \left( \frac{\pi}{\epsilon}, \frac{\pi}{\epsilon} - x \right) \rightarrow -x > \frac{\pi}{\epsilon} - \frac{\pi}{\epsilon} + \frac{\pi}{\epsilon} \rightarrow \frac{\pi}{\epsilon} > \frac{\pi}{\epsilon} - x > 0 \rightarrow 0 < \tan \left( \frac{\pi}{\epsilon} - x \right) < \infty$$

(5)

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

$$\textcircled{10} \quad \left. \begin{aligned} \tan(\mu \cdot) &= -\sqrt{\mu} \\ \cos(\mu \cdot) &= \frac{-\sqrt{\mu}}{\mu} \\ \tan(\epsilon \cdot) &= -\sqrt{\mu} \\ \sin(\epsilon \cdot) &= \frac{\sqrt{\mu}}{\mu} \end{aligned} \right\}$$

$$\Rightarrow \tan(\mu \cdot) \cot(\mu \cdot) + \tan(\epsilon \cdot) \sin(\epsilon \cdot) = 0$$

(5)