

۹. الف) در بازه $(0, \pi)$ [درنا ص ۳]

از صفر عبور می‌کند $\Rightarrow \sin = 0$

از ۱ عبور می‌کند $\Rightarrow \cos = -1$

زیاد می‌شود

ب) [درنا ص ۴] بازه $(\pi, 2\pi)$

$\sin = 1 \rightarrow 0$ کم می‌شود

$\cos = 0 \rightarrow -1$ کم می‌شود

$\sin$ و $\cos$

هر دو منفی

۱. -

درنا ص ۳

$$p + q = 1 \quad \leftarrow \tan = \frac{1}{3} = \frac{\text{مقابل}}{\text{جوار}}$$

$$\sin = -\frac{\text{مقابل}}{\text{وتر}} = -\frac{1}{\sqrt{10}} = -\frac{\sqrt{10}}{10}$$

$$1 + 9 = 10 \rightarrow \sqrt{10}$$

✓ -

$$\sin(\alpha) = \frac{4}{10}$$

$$h = V \times (\sin \alpha) = 10 \times \frac{4}{10} = 4, p$$

$$b = V \times (\cos \alpha) = 10 \times \sqrt{1 - \left(\frac{4}{10}\right)^2} = 10 \times \frac{8}{10} = 8$$

۵, ۴

$$5, 4 + 4 = 11, 4$$

$$p = 4 + 11, 4 + 10 + 8 = 33, 12$$

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

$$\frac{\frac{1}{\sqrt{\mu}} \times \frac{\mu}{\mu}}{\frac{\mu}{\mu}} = \frac{\mu \times \frac{1}{\mu}}{\mu \times \frac{1}{\mu}} = \frac{1 \times 1}{1 \times 1} = 1 \Rightarrow$$

$$\theta \approx \frac{\pi}{4}$$

$$\frac{\sin \theta}{\cos \theta} = \frac{1}{1} = \sin \theta = \cos \theta$$

$$\frac{1 \times \cos \theta}{\cos \theta} = 1$$

$$\sin \theta = \frac{1}{\sqrt{\mu}} = \frac{\mu}{\mu}$$

Subject: ()

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الف) $\frac{4V}{1A} = R_{ad} = \frac{4V \times \pi}{1A \times 2} = \frac{2\pi}{1}$ ١- دانا اهن حواه

ب) $\frac{12d}{1A} = R_{ad} = \frac{12d \times \pi}{1A \times 4} = \frac{3\pi}{1}$

ج) $\frac{D}{1A} = \frac{\frac{2\pi}{12}}{\pi} = \frac{1A \cdot (\frac{2\pi}{12})}{\pi} = \frac{1}{6}$

د) $\frac{D}{1A} = \frac{\frac{5\pi}{9}}{\pi} = \frac{1A \cdot (\frac{5\pi}{9})}{\pi} = \frac{5}{9}$

$$\text{درجه } \alpha = 0,9$$

$$\frac{12\omega\pi}{9} \times 0,9 = \frac{11\pi}{9} \approx 3,49, \psi^\circ$$

$$\alpha = 11,0 - 1,1 - 3,49, \psi^\circ = 6,41 \psi^\circ$$

الف) $\left(\frac{1}{\mu} \times \frac{\sqrt{\mu}}{\mu} \right) - \left(\frac{1}{\mu} \times \frac{\sqrt{\mu}}{\mu} \right) - 1 + \psi(1) - \mu$

$$\frac{\sqrt{\mu}}{\mu} + \frac{\sqrt{\mu}}{\mu} - 1 = \frac{\mu\sqrt{\mu}}{2}$$

ب) $\frac{\frac{1}{\mu} + \frac{\mu}{\mu} + \frac{9}{\mu}}{\mu\sqrt{\mu}} =$ ~~scribbles~~

$$\Rightarrow \left[\frac{1}{\mu} \times \frac{\mu}{\mu\sqrt{\mu}} = \frac{1}{\mu\sqrt{\mu}} \right]$$

$$\left(-\frac{1}{\mu} \times \frac{1}{\mu} \right) + \left(\frac{\sqrt{\mu}}{\mu} \times \frac{\sqrt{\mu}}{\mu} \right) = -\frac{1}{\mu} + \frac{\mu}{\mu} = \frac{\mu}{\mu} = 0,15 - \psi$$

$$0,15 = \sin^2 \theta$$

$$\sin = \frac{1}{\sqrt{\mu}}$$

$$\tan = 1$$