

14745

پورے انداز

7.2

الف) $2V^0 = (\pi) \text{ rad}$

c) $\dot{\varphi} = 2 \text{ rad}$

$$x = V \times \frac{\pi}{1 \text{ A}^\circ} = \frac{10 \pi}{V}$$

$$x = 1 \mu \times \frac{\pi}{1 \lambda_0} = \frac{1 \mu \pi}{800}$$

$$\frac{\omega \pi}{1r} \text{ rad} = (m)^{\circ}$$

$$\pi = \frac{\phi \pi}{18} \times \frac{1 \text{ m}}{\pi} = \frac{\phi \pi \times 1 \text{ m}}{18 \pi} \Rightarrow \phi \times 1 \text{ m} = V \text{ m} \Rightarrow \pi = V$$

5) $\frac{2\pi}{9} \text{ rad} = (n)^\circ$

$$n = \frac{\sum \pi}{q} \times \frac{\lambda_0}{\pi} = \frac{\sum x \lambda_0}{q} \Rightarrow \sum x \rho_0 = \lambda_0 \Rightarrow n = \lambda$$

L 10 a

$$I = \frac{1750}{9} G \rightarrow \frac{1750}{9} \times \frac{9}{10} = \frac{1750}{10} = 175$$

$$\underline{s} = \frac{\alpha \pi}{\lambda} \text{ Rad} \rightarrow \frac{\alpha \pi}{\lambda} \times \frac{1 \text{ m}}{\pi} = \frac{1 \text{ m} \cdot \alpha}{\lambda} = \frac{\Sigma \delta \alpha}{r} = r \gamma, \sigma \alpha$$

$$(10a) + (15, 2a) + (25, 8a) = 110 \Rightarrow a = \frac{110}{\cancel{60}} \Rightarrow a = \frac{11}{6} \Rightarrow \sum_0^{\circ}, \delta_0^{\circ}, \rho_0^{\circ}$$

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

$$\frac{\frac{1}{3} + 1 + \frac{2}{3}}{\frac{1}{3} + 1 + \frac{2}{3}} = \frac{\frac{1}{3} + 1 + \frac{2}{3}}{\frac{1}{3} + 1 + \frac{2}{3}}$$

$$= \frac{1}{\sqrt{2}} \times \frac{\sqrt{2}}{\sqrt{2}} = \frac{1}{\sqrt{2}}$$

$$-\sin^2 0^\circ \cdot \cos 40^\circ + \cos 0^\circ \cdot \sin 40^\circ = \sin^2 \theta \Rightarrow \tan \theta = 2$$

$$\left(-\frac{1}{r^2} \times \frac{1}{r}\right) + \left(\frac{\sqrt{r}}{r} \times \frac{\sqrt{r}}{r}\right) = \sin^2 \theta$$

$$0^\circ < \theta < 90^\circ \quad -\frac{1}{\mu_2} + \frac{\mu_1}{\mu_2} = \sin^r \theta \Rightarrow \frac{\mu_1}{\mu_2} = \sin^r \theta \Rightarrow \sin^r \theta = \frac{1}{\mu_2}$$

P4PCO: $\Rightarrow \sin \theta = \pm \frac{\sqrt{1-r^2}}{r} \Rightarrow \sin \theta = \frac{\sqrt{1-r^2}}{r} \Rightarrow \theta = 2^\circ$
 $\Rightarrow \tan \theta = \frac{1}{r}$

ا) $\theta \uparrow \Rightarrow \sin \theta \downarrow, \cos \theta \uparrow \quad 44^\circ < \theta < 45^\circ$

ب) $\theta \uparrow \Rightarrow \sin \theta \downarrow, \cos \theta \downarrow \quad 9^\circ < \theta < 11^\circ$

$$\tan \alpha = \frac{1}{2}$$

$$\sin \alpha = ?$$

$$1 + \tan^2 \alpha = \frac{1}{\cos^2 \alpha} \Rightarrow 1 + \left(\frac{1}{2}\right)^2 = \frac{1}{\cos^2 \alpha}$$

$$\Rightarrow \frac{1}{4} = \frac{1}{\cos^2 \alpha} \Rightarrow \frac{1}{\cos \alpha} = \frac{\sqrt{5}}{2} \Rightarrow \cos \alpha = \frac{2}{\sqrt{5}}$$

$$\Rightarrow \frac{\sin \alpha}{\cos \alpha} = \tan \alpha \Rightarrow \sin \alpha = \tan \alpha \cdot \cos \alpha$$

$$\Rightarrow \sin \alpha = \left(\frac{1}{2}\right) \times \left(\frac{2}{\sqrt{5}}\right) \Rightarrow \sin \alpha = \frac{1}{\sqrt{5}}$$

$$\Rightarrow \sin \alpha = \frac{\sqrt{5}}{5}$$