

تکلیف کا

ماہ صدام لکھ کر دے گا تب تر بنوید!

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میرا دل

$$S_2 = \frac{A(2gh)}{P}$$

$$= \frac{2}{1} \cdot \frac{2}{1}$$

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

(1)

$$A = \frac{2}{1}$$

$$gh = \tan\left(\frac{\pi}{2}\right) = 1$$

(2)

$$\Delta = \sin^2 \theta \cos^2 \theta \Rightarrow \frac{\sin^2 \theta}{2} > \frac{1}{2} \Rightarrow \sin^2 \theta > 1 \Rightarrow \cos^2 \theta = \frac{1}{2} \Rightarrow \cos \theta = \frac{1}{\sqrt{2}}$$

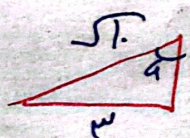
(1)

$$\Rightarrow \log \tan^2 = \frac{1}{\cos^2} \Rightarrow \frac{1}{\left(\frac{1}{\sqrt{2}}\right)^2} = \frac{1}{1/2} = 2$$

(2)

$$\log \sin \theta - \log(\cos \theta) = \log \frac{\sin \theta}{\cos \theta} = \log \tan \theta = \log 2 \Rightarrow \tan \theta = 2 \Rightarrow \frac{\sin \theta}{\cos \theta} = 2$$

(1)



$$\Rightarrow \sin \theta = \frac{2}{\sqrt{5}}, \cos \theta = \frac{1}{\sqrt{5}} \Rightarrow \sin - \cos = \frac{2}{\sqrt{5}} - \frac{1}{\sqrt{5}} = \frac{1}{\sqrt{5}}$$

(2)

$$\sin^2 \theta \cos^2 \theta (1 - \cos^2 \theta)^2 = \frac{1}{2} \cos^2 \theta \sin^2 \theta (1 - \cos^2 \theta)^2 = \frac{1 - \cos^2 \theta}{2}$$

$$\Rightarrow \sin^2 \theta \cos^2 \theta = \cos^2 \theta \sin^2 \theta \Rightarrow \cos^2 \theta \sin^2 \theta = \frac{1}{2}$$

(1)

$$\sin^2 \theta \tan^2 \theta = \frac{1}{\cos^2 \theta} \Rightarrow \frac{\sin^2 \theta}{\cos^2 \theta} > 0 \Rightarrow \frac{-\cos^2 \theta}{\cos^2 \theta} > 0 \Rightarrow \cos^2 \theta$$

(1)

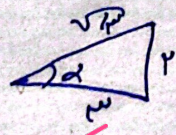
$$2 \sin^2 \theta + \frac{1}{2} \sin^2 \theta > 0 \Rightarrow \sin^2 \theta > 0 \Rightarrow \sin \theta > 0$$

(2)

$$P \cos \theta + P \sin \theta = 0 \Rightarrow P \cos \theta = -P \sin \theta \Rightarrow \tan \theta = -1$$

(1)

$$\Rightarrow \tan \theta = -1 \Rightarrow \theta = \frac{3\pi}{4} \Rightarrow \frac{135^\circ}{4}$$



(2)

$$\sin \theta = \cos \phi \Rightarrow \sin^2 \theta = \cos^2 \phi \Rightarrow 1 - \cos^2 \theta = \cos^2 \phi \Rightarrow \sin^2 \theta = \cos^2 \phi$$

$$\Rightarrow \sqrt{1 - \cos^2 \theta} = \sqrt{\cos^2 \phi}$$

$$\sin \theta = \cos \phi \Rightarrow 1 - \cos^2 \theta = \cos^2 \phi \Rightarrow \sin^2 \theta = \cos^2 \phi \Rightarrow \sin \theta = \cos \phi$$

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$$1 - r \sin^2 \delta = c \cdot s \cdot i$$

$$r c \cdot \delta - 1 = c \cdot s \cdot r$$

فرمات

$$\frac{1 - \tan^2 r}{1 + \tan^2 r} =$$

$$c(r \times r) = c \cdot \epsilon$$

$$\frac{c \cdot s^2 r - \sin^2 r}{c \cdot s^2 r + \sin^2 r} = c \cdot s \cdot f$$

سوال ٨

$$(s \cdot i \cdot 1) \cdot c \cdot s \cdot 1 \cdot x \cdot c \cdot s \cdot r \cdot x \cdot c \cdot s \cdot f =$$

$$\frac{1}{r} \sin r \cdot x \cdot c \cdot s \cdot r \cdot x \cdot c \cdot s \cdot f$$

$$\frac{1}{r} \times \frac{1}{r} \sin \epsilon \cdot x \cdot c \cdot s \cdot \epsilon =$$

$$\frac{1}{r} \times \frac{1}{r} \times \frac{1}{r} \sin \alpha = \frac{\frac{1}{\lambda} \sin \alpha}{\sin \alpha} = \frac{1}{\lambda} \cot \alpha$$