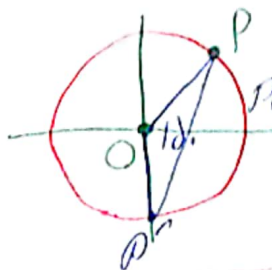


$$\frac{a \sin \frac{\pi}{6} + b \cos \frac{\pi}{6}}{a \sin \frac{11\pi}{6} + b \cos \frac{\pi}{6}} = \tan \frac{\pi}{6} \quad \frac{b}{a} = ? \quad -\frac{ca}{a} = -c$$

$$\frac{-\frac{\sqrt{3}}{2}a - \frac{\sqrt{3}}{2}b}{-\frac{a}{2} + \frac{b}{2}} = \frac{1}{\sqrt{3}} \rightarrow -\frac{c}{2}a - \frac{c}{2}b = -\frac{a}{2} + \frac{b}{2} \rightarrow \frac{ca}{2} = \frac{cb}{2} \rightarrow b = -ca$$

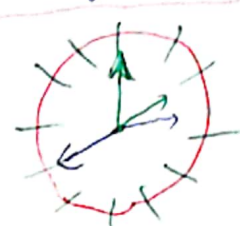
19/10/20

$P(\frac{1}{2}, \frac{\sqrt{3}}{2}) \rightarrow \alpha = \frac{1}{2} \rightarrow 90^\circ$



$$PP' = \sqrt{OP^2 + OP'^2 - 2(OP)(OP') \cos \alpha} = \sqrt{1 + 1 - 2 \times \frac{\sqrt{3}}{2}} = \sqrt{2 + \sqrt{3}}$$

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



$\frac{A}{9} \times \frac{11}{A} = 20 \rightarrow 2:40$

$\frac{24}{12} = 2 \rightarrow$ ساعت ۲ درج $\rightarrow$ دقیقه $\rightarrow 40$



بعضی شکل بد شد و ۳ ساعت ۳۰ دقیقه بدل بار دوم
زاویه بین عقربه ساعت شمار و دقیقه شمار ۳۰ می شود

$30^\circ - 10^\circ = 20$

بار اول
بار دوم

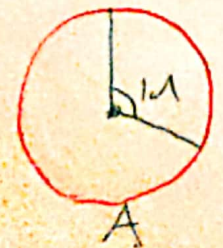
$\tan 10^\circ = 0.17$
 $\frac{\sin 10}{\cos 10} = \frac{1}{5}$
 $\cos 10 = 5$
 $\sin 10 = 1$

$\frac{\sin(100^\circ) + K \cos(50^\circ)}{\cos(140^\circ) + 2 \sin(190^\circ)} = 2 \quad K = ?$

$\frac{\sin 10 - K \sin 10}{-\cos 10 - 2 \sin 10} = \frac{1-K}{-1-2} = 2 \rightarrow 1-K = -12-6$
 $K = 22$

$\sin m = \frac{m-\pi}{\pi} \quad -\frac{\pi}{6} < m < \frac{\pi}{6} \rightarrow -\frac{1}{2} < \sin m < \frac{1}{2} \rightarrow -\frac{1}{2} < \frac{m-\pi}{\pi} < \frac{1}{2}$
 $\frac{1}{2} < m < \frac{3}{2}$
 $m \in (-\frac{1}{2}, \frac{1}{2}]$

$1.8 \times \frac{\pi}{180} = \frac{6\pi}{10}$



$\frac{9A}{10} \times V_B = \frac{4A}{10} \times V_A$

$S_A = \frac{9}{4} S_B$

$9V_B = 4V_A \rightarrow V_A = \frac{9}{4} V_B \rightarrow S_A = \frac{9}{4} S_B$

$$\frac{1 - \cos m}{1 + \cos m} = \tau$$

$$\tan\left(\frac{\pi}{2} - n\right) = \cot(\pi - n)$$

$$1 + \cos m = 1 - \cos m$$

$$\cot\left(\frac{\pi}{2} - n\right) + \tau \tan(\pi - n)$$

$$1 + \cos m = -1 - \cos m \approx -\frac{1}{\tau} \xrightarrow{\text{نحوه 6}} \sin > 0 \quad \tan < 0 \quad \cot < 0$$

$$\cos^2 + \sin^2 = 1 \quad \frac{1}{9} + \sin^2 = 1 \rightarrow \sin^2 = \frac{8}{9} \rightarrow \sin = \pm \frac{\sqrt{8}}{3} \rightarrow \tan = -\frac{\sqrt{8}}{1} \rightarrow \cot = -\frac{1}{\sqrt{8}}$$

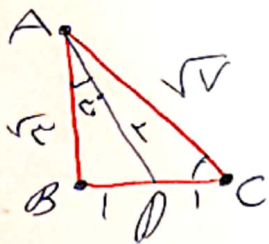
$$\frac{\cot m + \cot n}{\tan m + \tau \tan n} = \frac{\tau \cot}{-\tan} = \frac{-\frac{\sqrt{8}}{1}}{+\sqrt{8}} = \frac{\tau}{\lambda} = -\frac{1}{\tau}$$

فردین متنی است $\tan$

$$S_{ABC} = \sqrt{2}$$

$$\sin \angle C = ?$$

$$\sin C = \frac{\sqrt{2}}{\sqrt{2}}$$



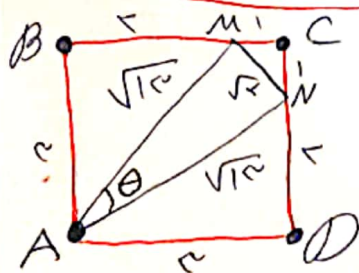
$$1 - 1 = 0 \rightarrow AB = \sqrt{2}$$

$$\cos C = \frac{1}{\sqrt{2}}$$

$$\frac{1}{2} \times \sqrt{2} \times BC = \sqrt{2} \rightarrow BC = 2 \rightarrow DC = 1$$

$$1 + 1 = 2 \rightarrow AC = \sqrt{2}$$

$$\sin \angle C = \tau \sin C \cos C = \tau \times \frac{\sqrt{2}}{\sqrt{2}} \times \frac{1}{\sqrt{2}} = \frac{\tau \sqrt{2}}{\sqrt{2}}$$



$$\sin \theta = ?$$

$$MN = \sqrt{(AM)^2 + (AN)^2 - 2(AM)(AN) \cos \theta}$$

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

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

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



برای جواب

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