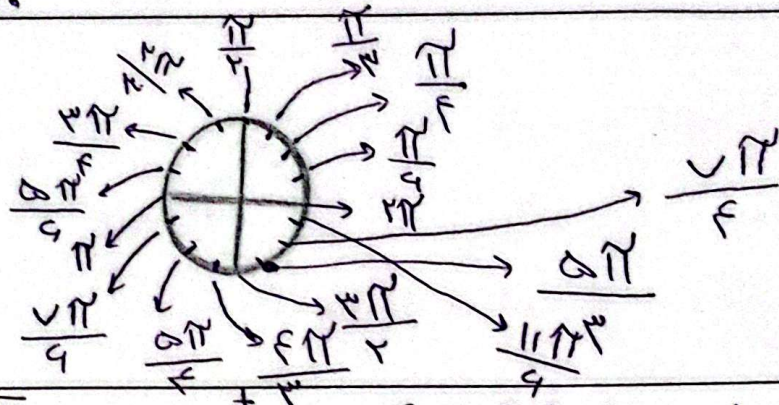
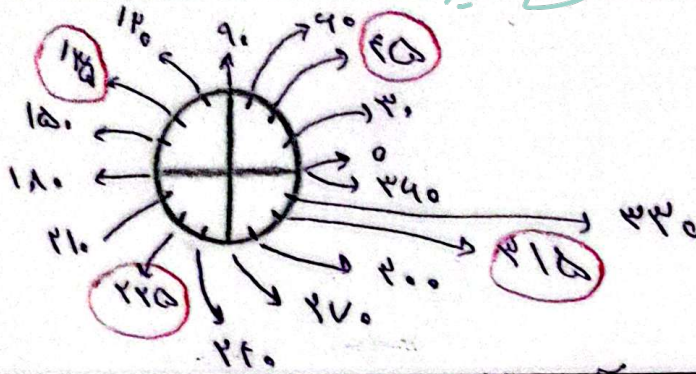


جنب نیم دایره هارو بزرگ تری کشیدی!



cos

$$\begin{cases} 15^\circ = \frac{\sqrt{2}}{2} \\ 15^\circ = -\frac{\sqrt{3}}{2} \\ 18^\circ = -1 \\ 21^\circ = -\frac{\sqrt{3}}{2} \\ 22^\circ = \frac{\sqrt{2}}{2} \\ 25^\circ = -\frac{1}{2} \end{cases}$$

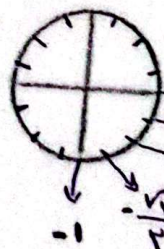


cos

$$\begin{cases} 0, 340 = 1 \\ 30 = \frac{\sqrt{2}}{2} \\ 45 = \frac{\sqrt{2}}{2} \\ 90 = \frac{1}{2} \\ 270, 90 = 0 \\ 120 = -\frac{1}{2} \end{cases}$$

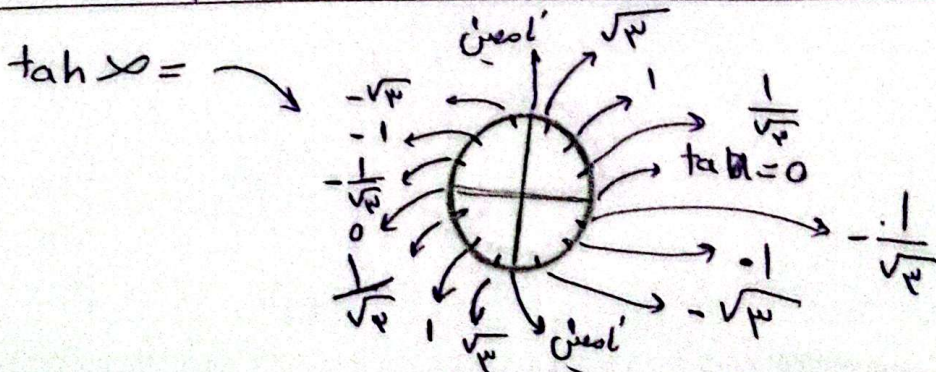
sin

$$\begin{cases} 15^\circ = \frac{\sqrt{2}}{2} \\ 15^\circ = \frac{1}{2} \\ 18^\circ = 0 \\ 21^\circ = -\frac{1}{2} \\ 22^\circ = -\frac{\sqrt{2}}{2} \\ 25^\circ = -\frac{\sqrt{3}}{2} \end{cases}$$

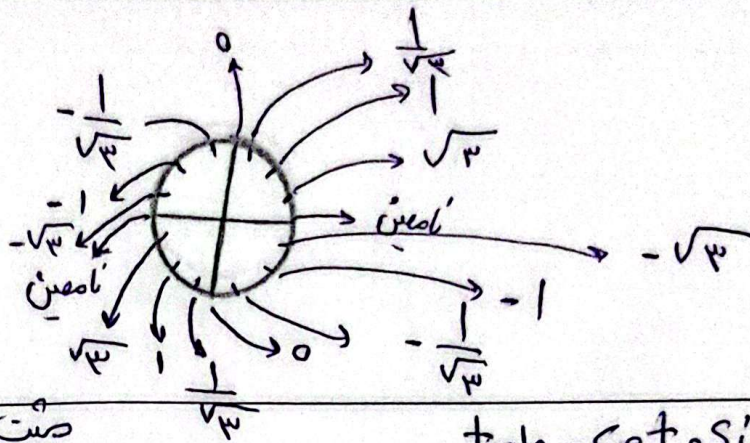


sin

$$\begin{cases} 0, 340 = 0 \\ 30 = \frac{1}{2} \\ 45 = \frac{\sqrt{2}}{2} \\ 90 = \frac{\sqrt{2}}{2} \\ 270, 90 = 1 \\ 120 = \frac{\sqrt{3}}{2} \end{cases}$$



$$\cot \varphi =$$



$\sin \Rightarrow +$ مثبت
 $\cos, \tan, \cot = -$ منفي
 $\sin, \cos =$ منفي
 $\tan, \cot = +$ مثبت
 $\tan, \cot, \sin, \cos$ مثبت
 $\tan, \cot, \sin = -$ منفي
 $\cos = +$ مثبت

$\sin \Rightarrow 150 = -\frac{1}{2} \rightarrow 240 = -\frac{1}{2} = \sin 40 = +\frac{1}{2}$ (الف)
 $\cos \Rightarrow 150 = -\frac{\sqrt{3}}{2} \rightarrow 210 = -\frac{\sqrt{3}}{2}$ (ب)
 $\tan \Rightarrow 330 = -\frac{1}{\sqrt{3}} \rightarrow 150 = -\frac{1}{\sqrt{3}}$ (ج)
 $\cot \Rightarrow 135 = -1 \rightarrow 315 = -1$ (د)

$\frac{2\pi}{3} = \cos \Rightarrow -\frac{1}{2} \rightarrow 120 = \frac{1}{2} = 30 = \frac{\pi}{6}$ (الف)

$\frac{11\pi}{4} = \cos \Rightarrow \frac{\sqrt{3}}{2} = -\frac{\sqrt{3}}{2} = 240 = \frac{4\pi}{3}$ (ب)

$\cot \varphi = \frac{5\pi}{4} = \cos$ (الف)
 $1 = 0, 360$

$\cos \varphi = 150 \Rightarrow -\frac{\sqrt{3}}{2} \rightarrow \frac{\sqrt{3}}{2} = 90$ (ب)