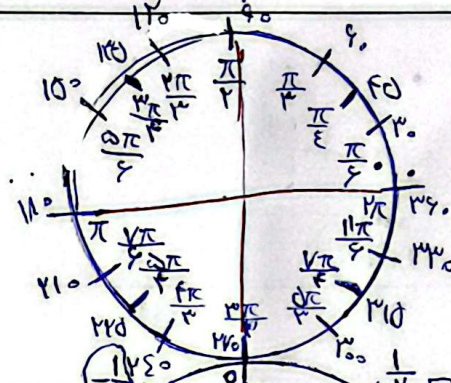
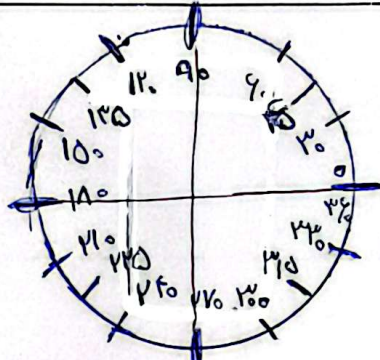
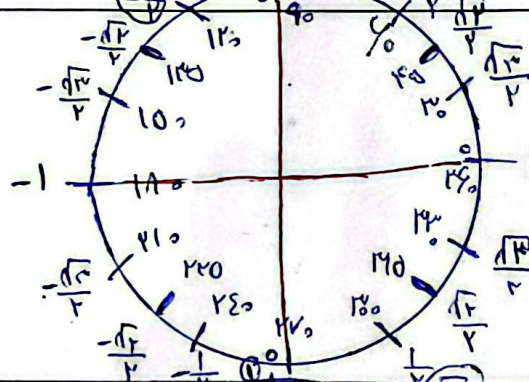
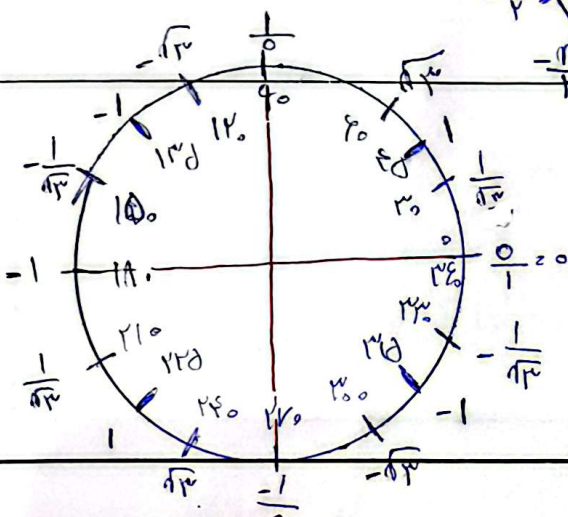
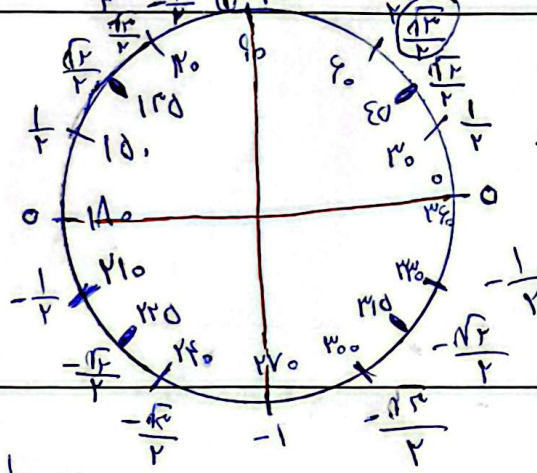


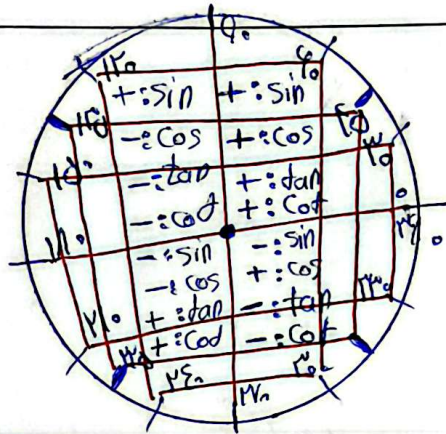
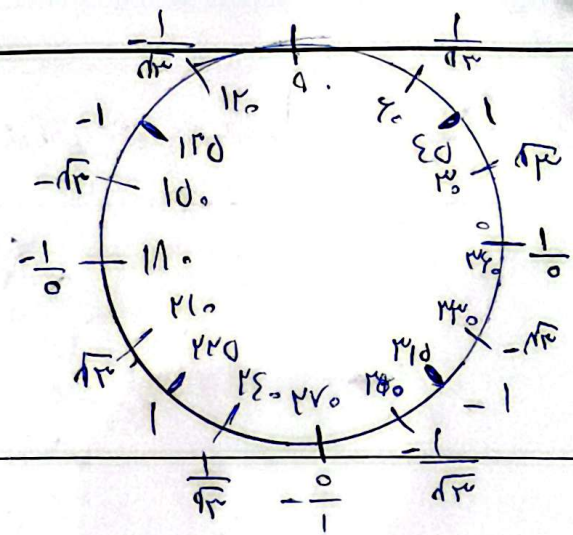


$$\begin{aligned}\cos 0^\circ &= 1 \\ \cos 30^\circ &= \frac{\sqrt{3}}{2} \\ \cos 60^\circ &= \frac{1}{2}\end{aligned}$$



$$\begin{aligned}\sin 0^\circ &= 0 \\ \sin 30^\circ &= \frac{1}{2} \\ \sin 60^\circ &= \frac{\sqrt{3}}{2}\end{aligned}$$





$$\begin{aligned} \sin 120^\circ &= \frac{\sqrt{3}}{2} \rightarrow \sin 60^\circ = \frac{\sqrt{3}}{2} \quad (\text{الف}) \\ \cos 150^\circ &= -\frac{\sqrt{3}}{2} \rightarrow \cos 30^\circ = \frac{\sqrt{3}}{2} \quad (\text{ب}) \\ \tan 225^\circ &= -\sqrt{3} \rightarrow \tan 45^\circ = \sqrt{3} \quad (\text{ج}) \\ \cot 135^\circ &= -1 \rightarrow \cot 45^\circ = 1 \quad (\text{د}) \end{aligned}$$

$$\cos \frac{2\pi}{3} = -\frac{1}{2} \xrightarrow{\text{مربع}} \frac{1}{2} \rightarrow \sin \left(\frac{\pi}{6}, \frac{5\pi}{6} \right) = \frac{1}{2} \quad (\text{الف})$$

$$\cos \frac{11\pi}{6} = \frac{\sqrt{3}}{2} \xrightarrow{\text{مربع}} -\frac{\sqrt{3}}{2} \rightarrow \sin \left(\frac{5\pi}{6}, \frac{7\pi}{6} \right) = -\frac{\sqrt{3}}{2} \quad (\text{ب})$$

$$\cot \frac{7\pi}{2} = -1 \rightarrow \cos 180^\circ \quad (\text{الف})$$

$$\cos 150^\circ = -\frac{\sqrt{3}}{2} \xrightarrow{\text{مربع}} \frac{\sqrt{3}}{2} \rightarrow \sin 30^\circ, 150^\circ = \frac{\sqrt{3}}{2} \quad (\text{ب})$$