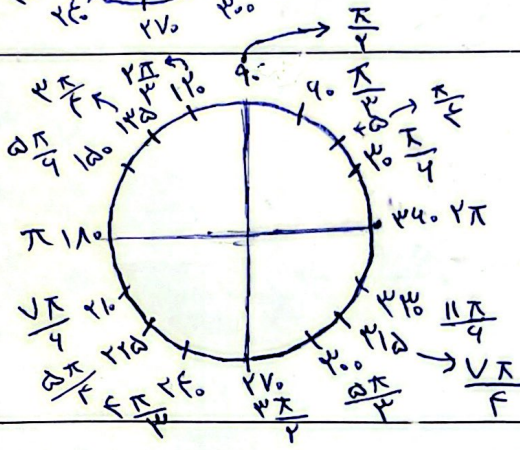
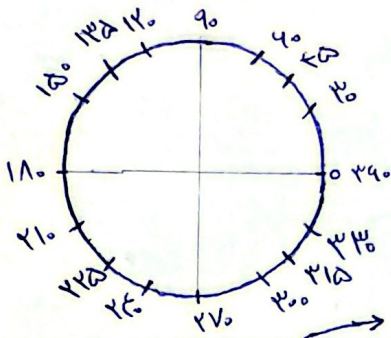
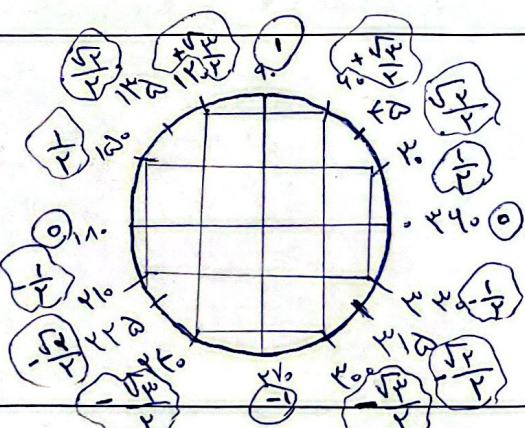
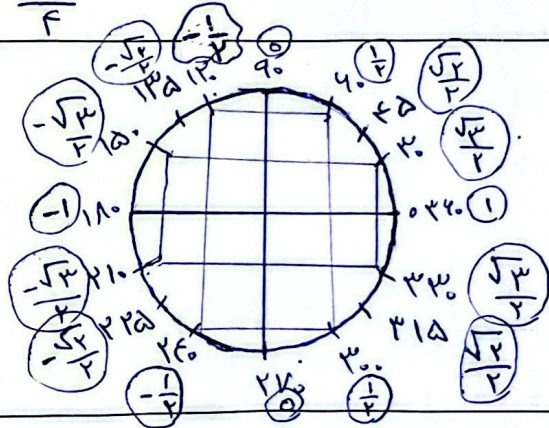




دو کسینوس ها دایره کسینوس

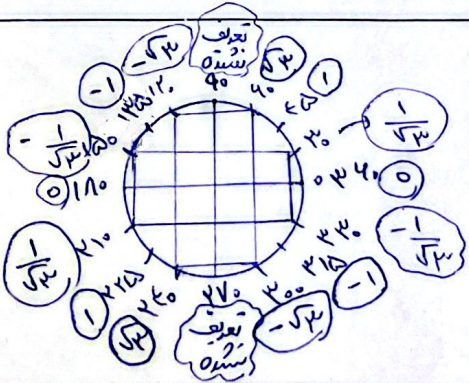


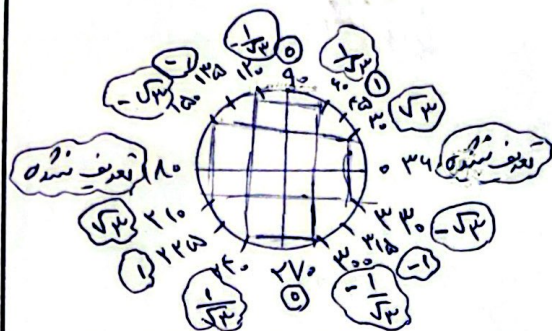
$$\tan = \frac{\sin}{\cos}$$

$$\tan 45^\circ = \frac{\frac{\sqrt{2}}{2}}{\frac{\sqrt{2}}{2}} = 1$$

$$\tan 30^\circ = \frac{\frac{1}{2}}{\frac{\sqrt{3}}{2}} = \frac{1}{\sqrt{3}}$$

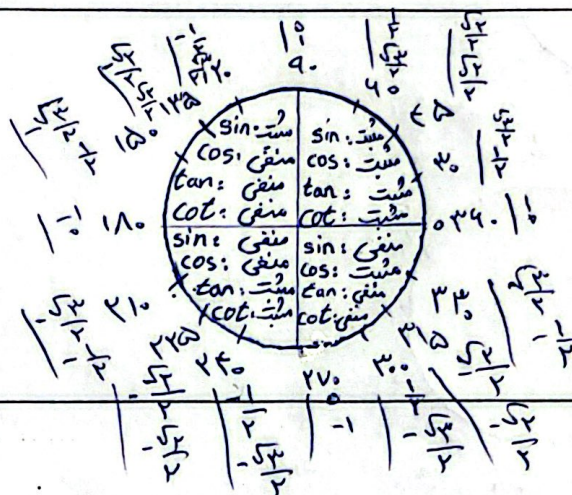
$$\tan 60^\circ = \frac{\frac{\sqrt{3}}{2}}{\frac{1}{2}} = \sqrt{3}$$





$$\cot = \frac{\cos}{\sin}$$

$$\cot 30^\circ = \frac{\cos 30^\circ}{\sin 30^\circ} = \frac{\frac{\sqrt{3}}{2}}{\frac{1}{2}} = \sqrt{3}$$



الف) 4°
ب) 210°
ج) 15°
د) 315°

الف) $\frac{2\pi}{3} = 120^\circ \rightarrow \cos 120^\circ = -\frac{1}{2} \rightarrow \left(\frac{1}{2}\right) \rightarrow 30^\circ, 150^\circ \rightarrow \frac{\pi}{4}, \frac{5\pi}{4}$

ب) $\frac{11\pi}{4} = 302.5^\circ \rightarrow \cos 302.5^\circ = \frac{\sqrt{3}}{2} \rightarrow -\frac{\sqrt{3}}{2} \rightarrow 240^\circ, 300^\circ \rightarrow \frac{4\pi}{3}, \frac{5\pi}{3}$

الف) $\frac{7\pi}{4} \rightarrow 315^\circ \rightarrow \cot 315^\circ = \frac{\cos}{\sin} = \frac{\frac{\sqrt{2}}{2}}{-\frac{\sqrt{2}}{2}} = (-1) \rightarrow \cos(135^\circ)$

ب) $\cos 150^\circ = -\frac{\sqrt{3}}{2} \rightarrow \frac{\sqrt{3}}{2} \rightarrow 4^\circ, 12^\circ$