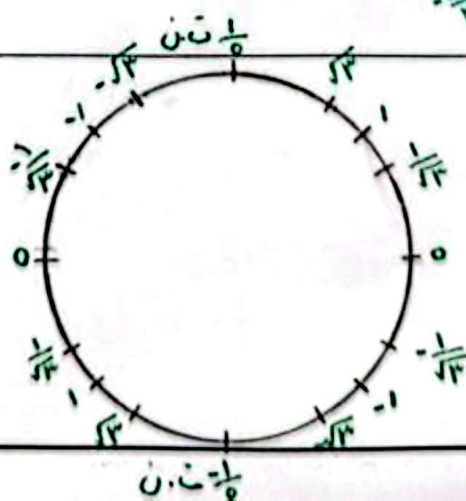
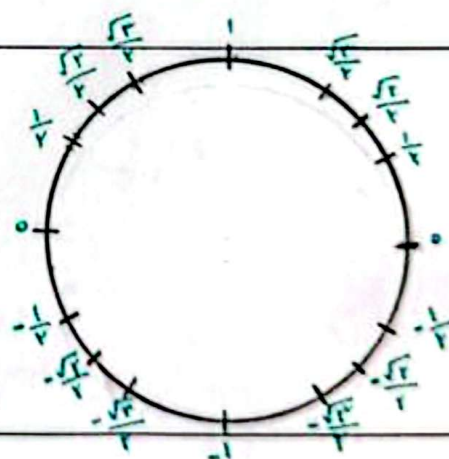
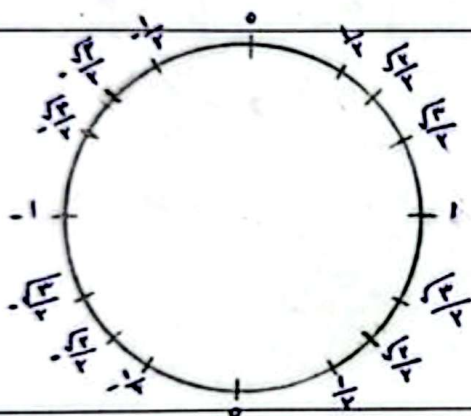
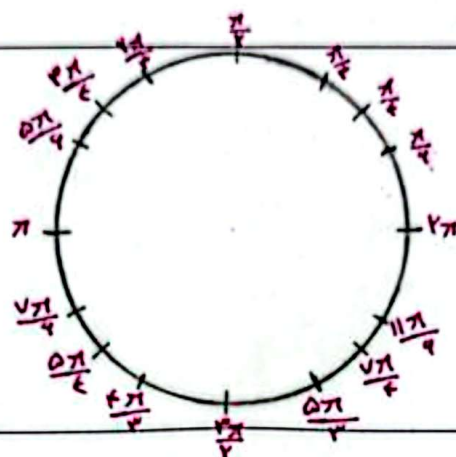
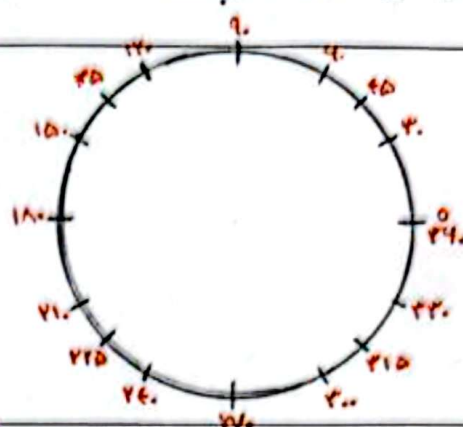
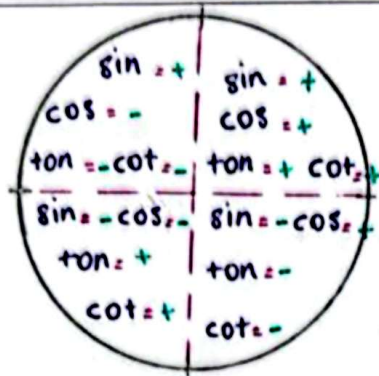
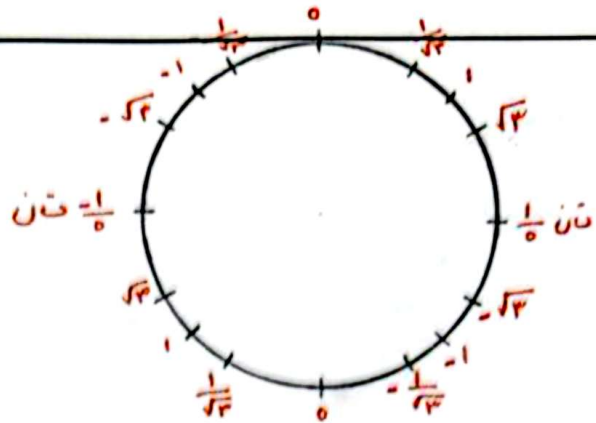


نام و نام خانوادگی: .....

پاسخنامه تشریحی تکلیف شماره ۳۰۰۰ کلاس: ...





$$\sin 12^\circ = \frac{\sqrt{r}}{r} \Rightarrow \sin 12^\circ = \sin 9^\circ = \frac{\sqrt{r}}{r}$$

$$\cos 15^\circ = -\frac{\sqrt{r}}{r} \Rightarrow \cos 15^\circ = \cos 21^\circ = -\frac{\sqrt{r}}{r}$$

$$\tan 22^\circ = -\frac{1}{\sqrt{r}} \Rightarrow \tan 22^\circ = \tan 15^\circ = -\frac{1}{\sqrt{r}}$$

$$\cot 135^\circ = -1 \Rightarrow \cot 135^\circ = \cot 215^\circ = -1$$

(الف)

(ب)

(ج)

(د)

$$\cos \frac{7\pi}{3} = -\frac{1}{r} \Rightarrow -\left(-\frac{1}{r}\right) = +\frac{1}{r} \Rightarrow \sin \frac{\pi}{4}, \sin \frac{5\pi}{4}$$

$$\cos \frac{11\pi}{4} = \frac{\sqrt{r}}{r} \Rightarrow -\frac{\sqrt{r}}{r} \Rightarrow \sin \frac{5\pi}{4}, \sin \frac{3\pi}{4}$$

(الف)

(ب)

$$\cot \frac{7\pi}{6} = -1 \Rightarrow \cos 150^\circ$$

$$\cos 15^\circ = -\frac{\sqrt{r}}{r} \Rightarrow -\left(-\frac{\sqrt{r}}{r}\right) = +\frac{\sqrt{r}}{r} \Rightarrow \sin 9^\circ, \sin 12^\circ$$

(الف)

(ب)