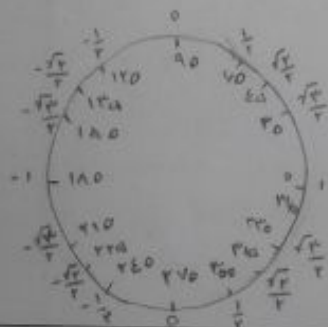
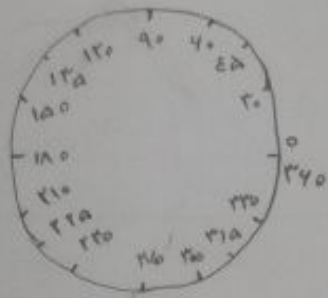
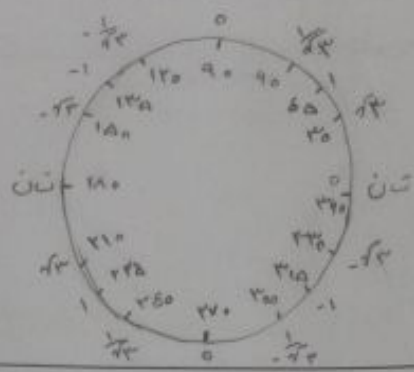
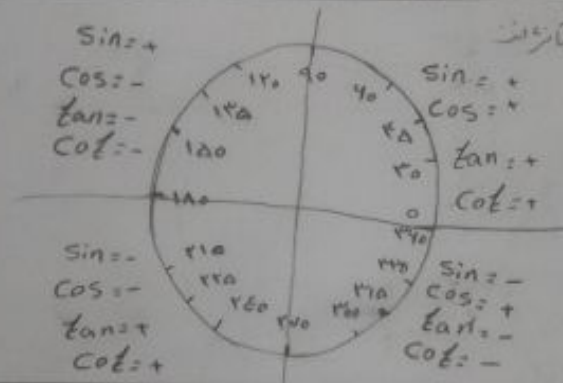


نام و نام خانوادگی نازنین زهرا سیفیان پاسخنامه تشریحی تکلیف شماره ۲ کلاس دهم فصل اول





6



علامت سینوس - کسینوس - تانژانت - کاتانژانت

7

$$\sin y = \sin 45^\circ \rightarrow \sin 45^\circ = \frac{\sqrt{2}}{2} \rightarrow \sin y = \frac{\sqrt{2}}{2} \rightarrow y = 45^\circ$$

(الف)

$$\cos x = \cos 120^\circ \rightarrow \cos 120^\circ = -\frac{1}{2} \rightarrow \cos x = -\frac{1}{2} \rightarrow x = 120^\circ$$

(ب)

$$\tan \square = \tan 135^\circ \rightarrow \tan 135^\circ = \frac{\frac{\sqrt{2}}{2}}{-\frac{\sqrt{2}}{2}} = -1 \rightarrow \tan \square = -1 \rightarrow \square = 135^\circ$$

(ج)

$$\cot \square = \cot 135^\circ \rightarrow \cot 135^\circ = \frac{\frac{\sqrt{2}}{2}}{-\frac{\sqrt{2}}{2}} = -1 \rightarrow \cot \square = -1 \rightarrow \square = 135^\circ$$

(د)

8

$$\sin \square = -(\cos \frac{2\pi}{3})$$

$$-(\cos \frac{2\pi}{3}) = \frac{1}{2} \Rightarrow \sin \square = \frac{1}{2} \Rightarrow \square = 30^\circ, 150^\circ \rightarrow \frac{\pi}{6}, \frac{5\pi}{6}$$

(الف)

9

$$-(\cos \frac{3\pi}{4}) = \sin \square \Rightarrow \sin \square = -\frac{\sqrt{2}}{2} \rightarrow \square = 225^\circ, 315^\circ \rightarrow \frac{5\pi}{4}, \frac{7\pi}{4}$$

(ب)

$$\cot \frac{3\pi}{4} = \cos \square \rightarrow \cot \frac{3\pi}{4} = -1 \rightarrow \cos \square = -1 \rightarrow \square = 180^\circ$$

(ج)

10

$$-(\cos \frac{\pi}{4}) = \sin \square \Rightarrow \sin \square = -\frac{\sqrt{2}}{2} \rightarrow \square = 225^\circ, 315^\circ$$

(د)