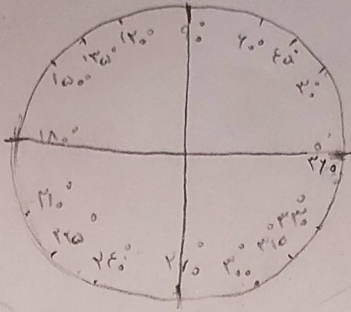
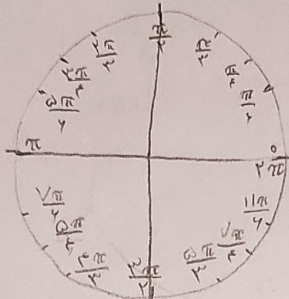


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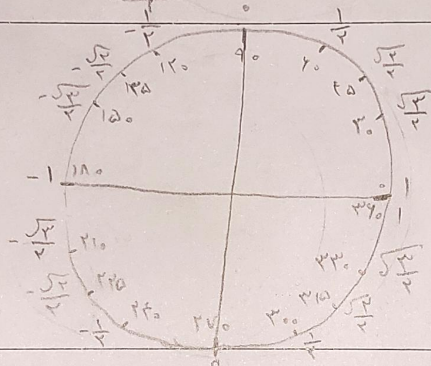
نام و نام خانوادگی آریستو سیمانیان پاسخنامه تشریحی تکلیف شماره ۲ کلاس دبیر B



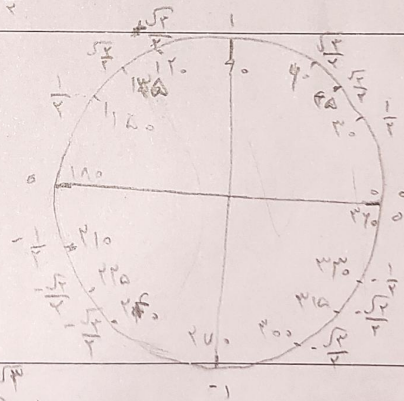
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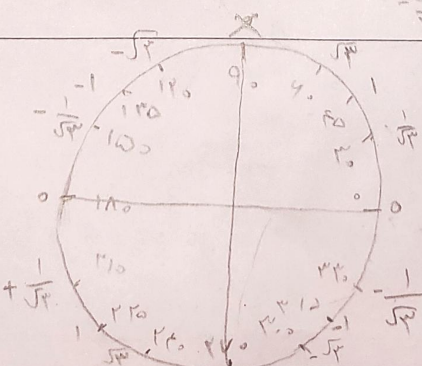
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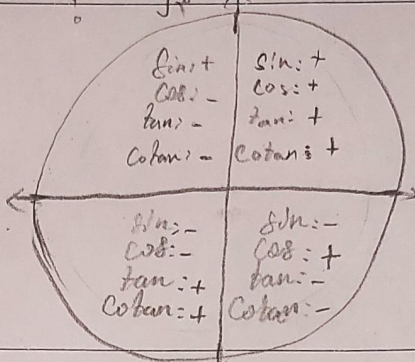
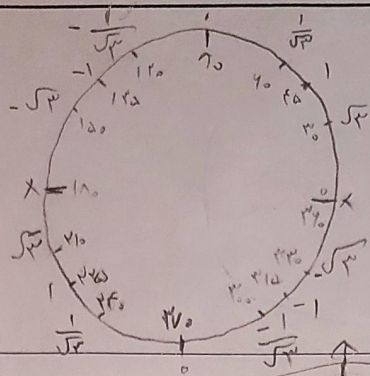
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$$\sin \frac{\pi}{4} = \frac{1}{\sqrt{2}} = \frac{1}{\sqrt{2}}$$

$$\cos \frac{\pi}{4} = \frac{\sqrt{2}}{2} = \frac{\sqrt{2}}{2}$$



$$\begin{aligned}\sin 15^\circ &= \frac{\sqrt{2}}{4} \\ \cos 150^\circ &= -\frac{\sqrt{3}}{2} \\ \tan 135^\circ &= -1 \\ \cotan 135^\circ &= -1\end{aligned}$$

$$\begin{aligned}40^\circ & \text{ (f)} \\ 110^\circ & \text{ (-)} \\ 100^\circ & \text{ (f)} \\ 110^\circ & \text{ (-)}\end{aligned}$$

$$\cos \frac{2\pi}{4} = \frac{-1}{1} \rightarrow \frac{1}{1}$$

$$\cos \frac{11\pi}{4} = \frac{\sqrt{2}}{2} \rightarrow -\frac{\sqrt{2}}{2}$$

$$\frac{11\pi}{4} = \frac{2\pi}{4} + \frac{7\pi}{4} = \frac{2\pi}{4} + \frac{7\pi}{4} \text{ (f)}$$

$$\frac{2\pi}{4} = \frac{\pi}{2} \text{ (-)}$$

$$\cotan \frac{5\pi}{4} = -1 = \cos 180^\circ$$

$$\cos 180^\circ = \frac{-1}{1} = \sin 180^\circ, \cos 0^\circ$$

$$\begin{aligned}180^\circ & \text{ (f)} \\ 180^\circ, 0^\circ & \text{ (-)}\end{aligned}$$

$$-\cos\left(\frac{2\pi}{4}\right) = +\frac{\sqrt{2}}{2} = \sin\left(\frac{\pi}{4}\right) = \sin\left(\frac{3\pi}{4}\right)$$