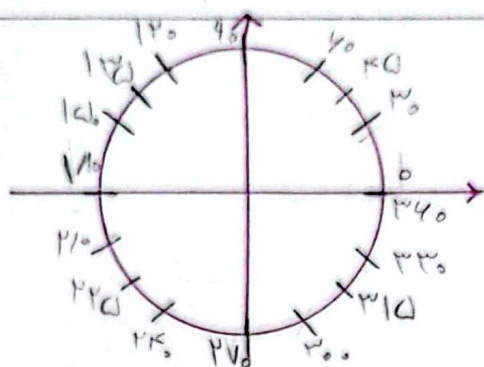
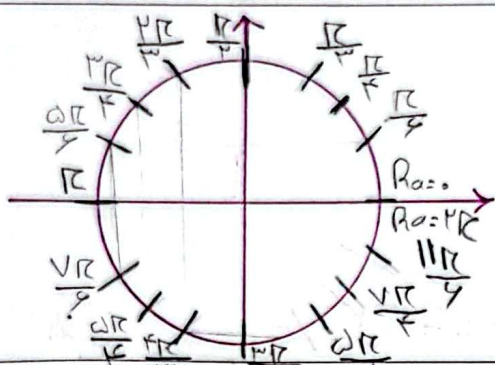


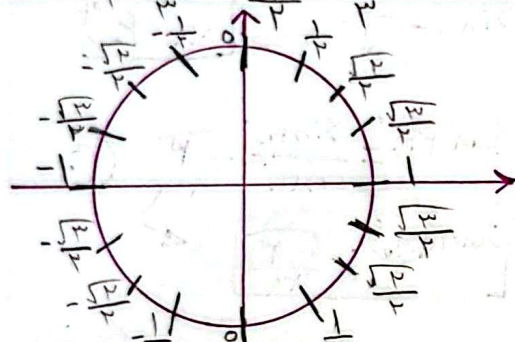
نام و نام خانوادگی: علیرضا ابنی عربی پاسخنامه تشریحی تکلیف شماره ۲ کلاس B - دهم



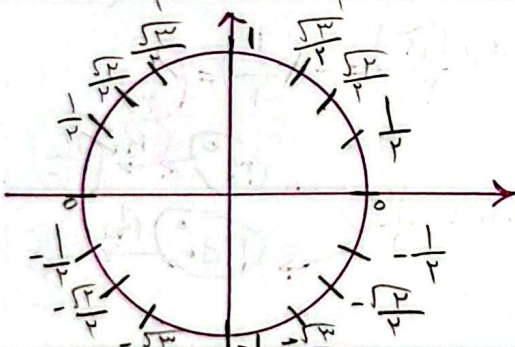
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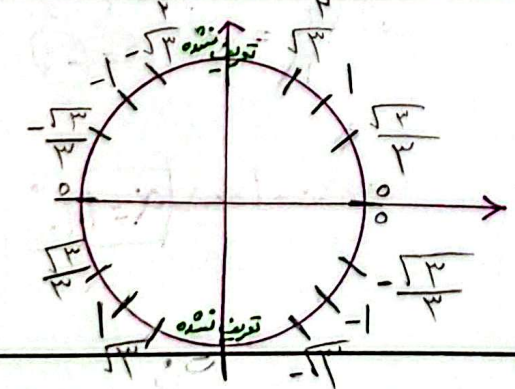
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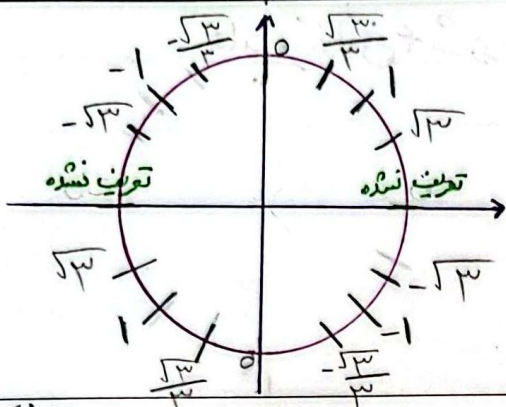


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$\begin{matrix} \cos \\ \sin \end{matrix}$

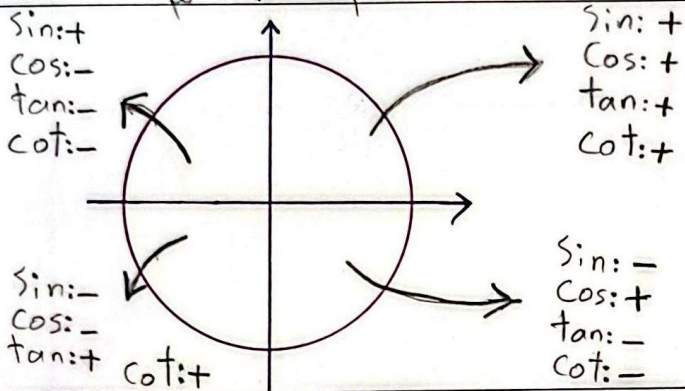
$\begin{matrix} \cos \\ \sin \end{matrix}$

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



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

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$$\cos 150^\circ = -\frac{\sqrt{3}}{2} = \cos 210^\circ \quad (\text{ب.})$$

$$\sin 150^\circ = \frac{\sqrt{3}}{2} \Rightarrow \alpha = 30^\circ \quad (\text{الف})$$

$$\sin \alpha = \frac{\sqrt{3}}{2} \Rightarrow \alpha = 60^\circ$$

$$\cot 135^\circ = -1 \quad \cot 135^\circ = \frac{\cos 135^\circ}{\sin 135^\circ} = \frac{-\frac{\sqrt{2}}{2}}{\frac{\sqrt{2}}{2}} = -1$$

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

$$\tan 150^\circ = \frac{\sin 150^\circ}{\cos 150^\circ} = \frac{\frac{\sqrt{3}}{2}}{-\frac{1}{2}} = -\sqrt{3}$$

$$\tan 150^\circ = -\sqrt{3}$$

٨

$$-(\cos \frac{11\pi}{6}) = -(\frac{\sqrt{3}}{2}) = -\frac{\sqrt{3}}{2} \quad (\text{ب.})$$

$$-(\cos \frac{2\pi}{3}) = -(-\frac{1}{2}) = \frac{1}{2} \quad (\text{الف})$$

$$\sin \alpha = -\frac{\sqrt{3}}{2} \Rightarrow \alpha = 240^\circ \text{ or } 300^\circ$$

$$\sin \alpha = \frac{1}{2} \Rightarrow \alpha = 30^\circ \text{ or } 150^\circ$$

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$$-(\cos 150^\circ) = -(-\frac{\sqrt{3}}{2}) = \frac{\sqrt{3}}{2} \quad (\text{ب.})$$

$$\sin \alpha = \frac{\sqrt{3}}{2} \Rightarrow \alpha = 60^\circ \text{ or } 120^\circ$$

$$\cot \frac{7\pi}{6} = \cot 210^\circ = -1 \quad (\text{الف})$$

$$\cos \alpha = -1 \Rightarrow \alpha = 180^\circ$$

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