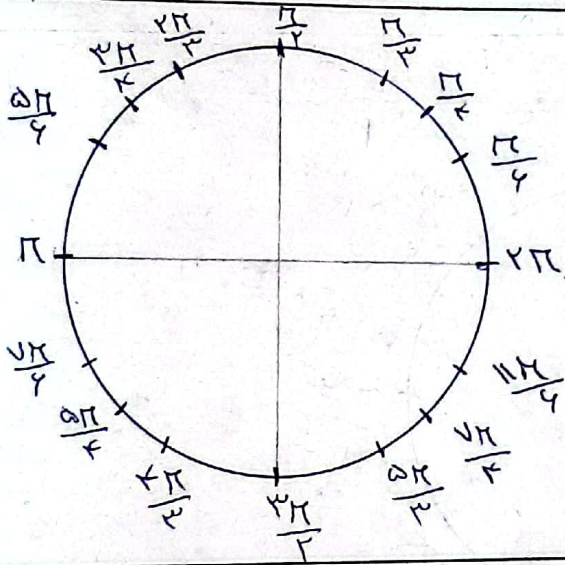
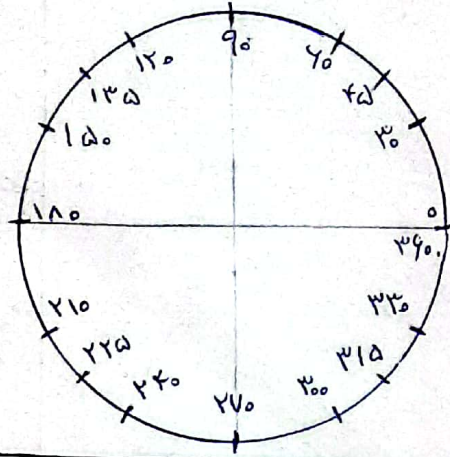


نام و نام خانوادگی: آلاء شهاب پوری با شماره سریال کلکف: ۲

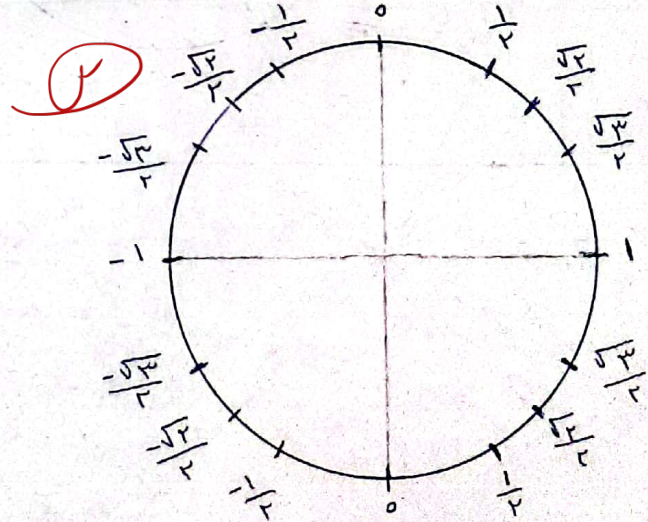
کلاس: دهم دختر

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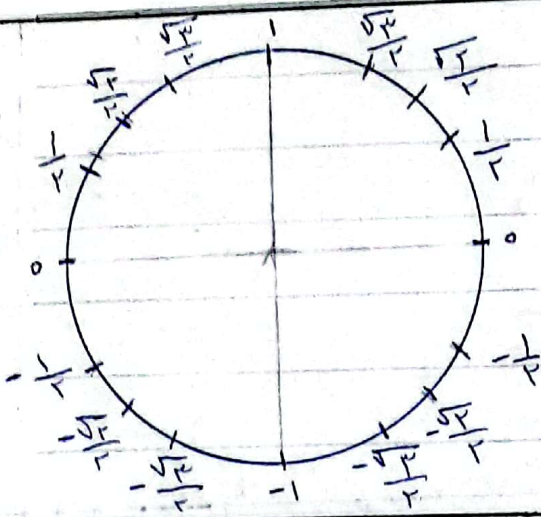
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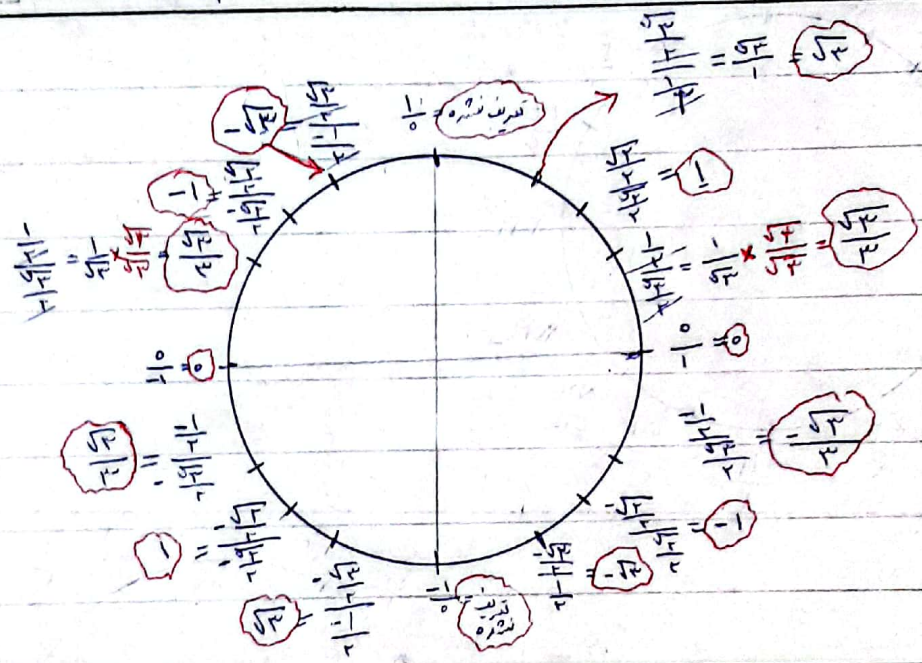
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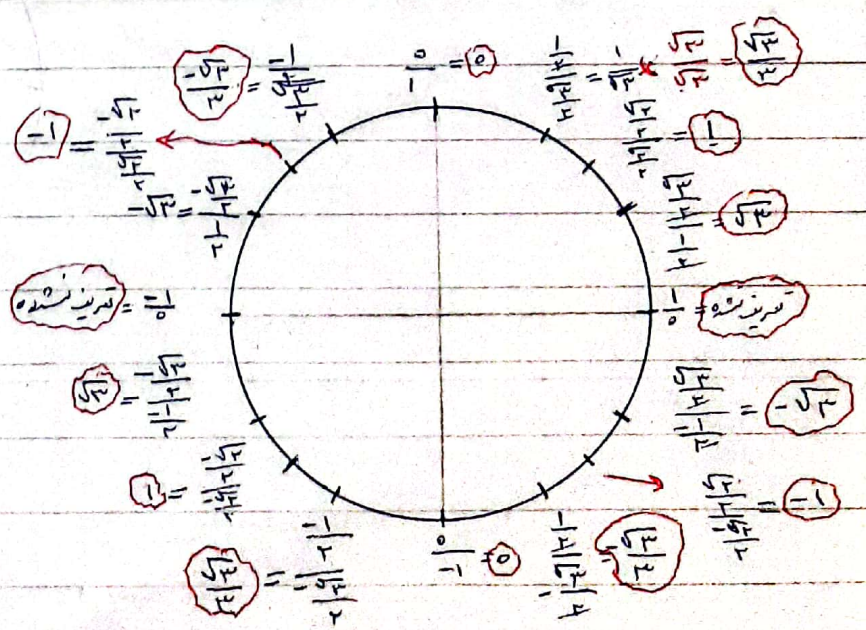
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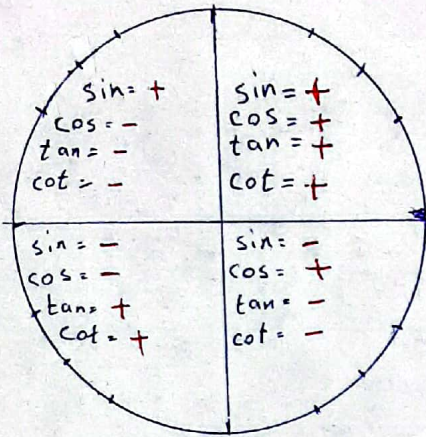
3

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

3



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$$\sin 120^\circ = \frac{\sqrt{3}}{2}$$

$$\sin x = \frac{\sqrt{3}}{2}$$

$$\rightarrow x = 60^\circ$$

الف

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

$$\cos x = -\frac{\sqrt{3}}{2}$$

$$\rightarrow x = 210^\circ$$

ب

$$\tan 330^\circ = \frac{-1}{\sqrt{3}} = -\frac{1}{\sqrt{3}} \times \frac{\sqrt{3}}{\sqrt{3}} = -\frac{\sqrt{3}}{3}$$

$$\tan x = -\frac{\sqrt{3}}{3}$$

$$x = 150^\circ$$

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

$$\rightarrow \frac{\sin}{\cos} = \frac{-1}{\sqrt{3}} = -\frac{\sqrt{3}}{3}$$

ج

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

$$\cot x = -1$$

$$\rightarrow x = 225^\circ$$

د

$$\rightarrow \frac{\frac{\sqrt{2}}{2}}{-\frac{\sqrt{2}}{2}} = -1$$

$$\frac{\sqrt{3}}{2} = 120^\circ$$

$$\cos 150^\circ = -\frac{1}{2} \rightarrow \frac{1}{2}$$

$$\sin x = \frac{1}{2} \rightarrow x = 30^\circ, 150^\circ$$

الف

بر حسب رadian

$$\frac{\pi}{6}, \frac{5\pi}{6}$$

$$\frac{11\pi}{6} = 330^\circ$$

$$\cos 330^\circ = \frac{\sqrt{3}}{2} \rightarrow -\frac{\sqrt{3}}{2}$$

$$\sin x = -\frac{\sqrt{3}}{2} \rightarrow x = 240^\circ, 300^\circ$$

ب

بر حسب رadian

$$\frac{4\pi}{3}, \frac{5\pi}{3}$$

$$\cot = \frac{\cos}{\sin} \quad \frac{11\pi}{6} = 330^\circ \rightarrow \cot 330^\circ = \frac{\frac{\sqrt{3}}{2}}{-\frac{1}{2}} = -\sqrt{3}$$

$$\cos x = -1 \rightarrow x = 180^\circ$$

الف

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$$\cos 150^\circ = -\frac{\sqrt{3}}{2} \rightarrow \frac{\sqrt{3}}{2}$$

$$\sin x = \frac{\sqrt{3}}{2}$$

$$\rightarrow x = 60^\circ, 120^\circ$$

ب

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