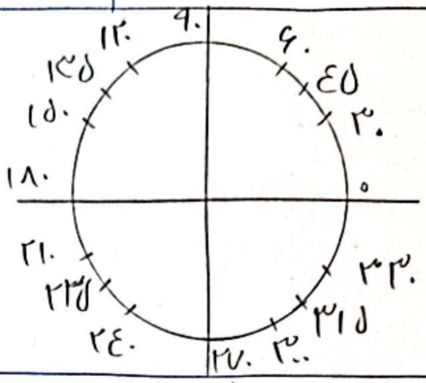
نام و نام خانوادگی: مازیار رحیمی | شماره کلینیک: ۲ | کلاس ۱۱ دفتر: گروه ۲. پنجشنبه ساعت ۱۹:۰۰

۱)



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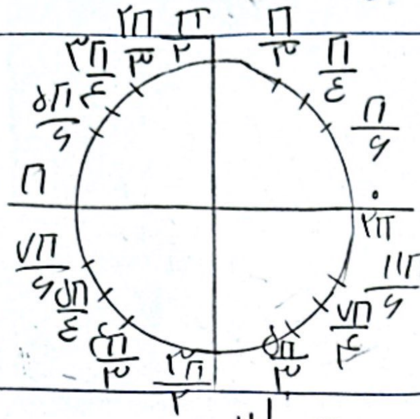

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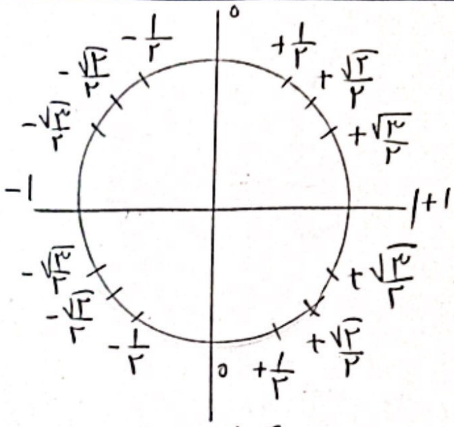

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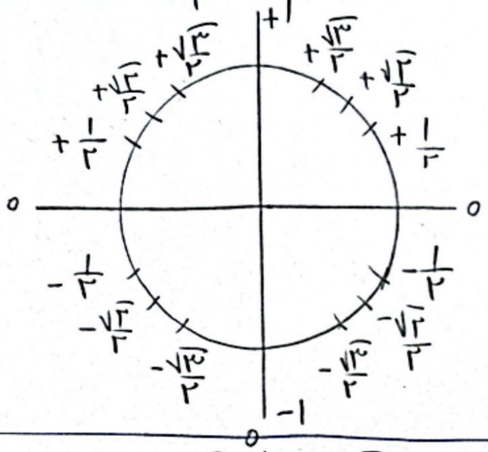

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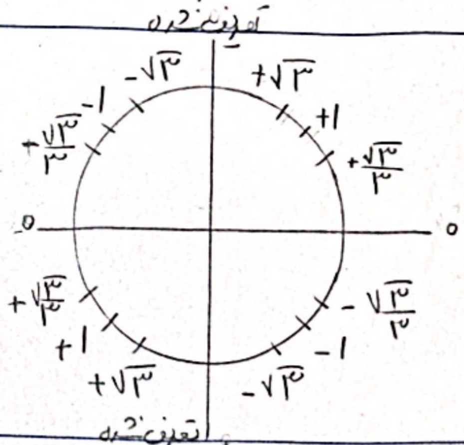

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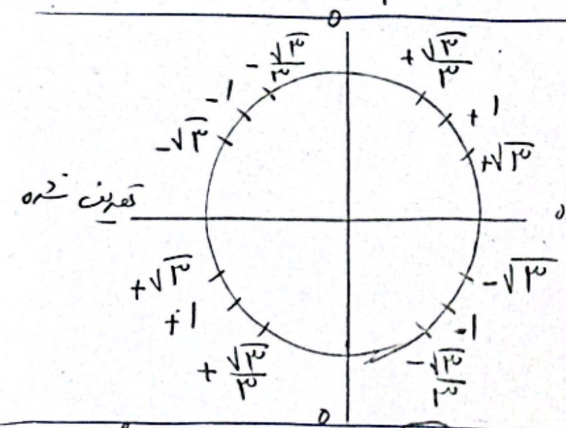
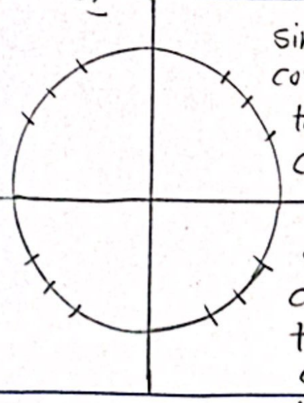


۷)

sin = + cos = − tan = − cot = −	sin = + cos = + tan = + cot = +
sin = − cos = − tan = + cot = +	sin = − cos = + tan = − cot = −



۸)

الف) $\sin 120^\circ = \frac{\sqrt{3}}{2} \Rightarrow \sin(30^\circ) = \frac{\sqrt{3}}{2}$

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

ج) $\tan 330^\circ = -\sqrt{3} = \tan(120^\circ) = -\sqrt{3}$

د) $\cot 135^\circ = -1 = \cot(315^\circ) = -1$

۹)

الف) $-\cos \frac{2\pi}{3} \Rightarrow -\cos 120 = +\frac{1}{2}$

$\sin x = \frac{1}{2} \quad x = 30^\circ, 150^\circ \Rightarrow \frac{\pi}{6}, \frac{5\pi}{6}$

ب) $-\cos \frac{11\pi}{6} = -\cos 330^\circ \Rightarrow -\frac{\sqrt{3}}{2}$

$\sin x = -\frac{\sqrt{3}}{2} \quad x = 240^\circ, 300^\circ \Rightarrow \frac{4\pi}{3}, \frac{5\pi}{3}$

۱۰)

الف) $\cot \frac{7\pi}{4} \Rightarrow \cot 135^\circ \Rightarrow -1$

$\cos x = -1 \quad x = 270^\circ$

ب) $-\cos 150 = \frac{\sqrt{3}}{2}$

$\sin x = \frac{\sqrt{3}}{2} \quad x = 60^\circ, 120^\circ$