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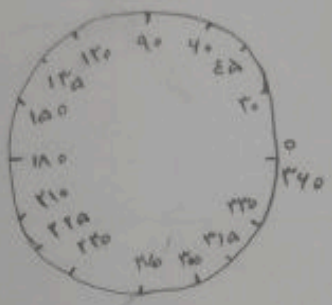
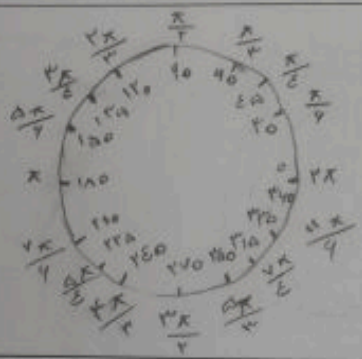
نام و نام خانوادگی ..... پاسخنامه تشریحی تکلیف شماره ۲ ..... کلاس دهم ..... A .....

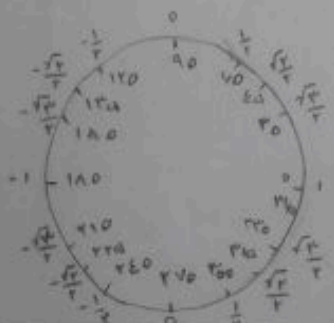
۱ درجه (۲)



۲ رادیان (۲)

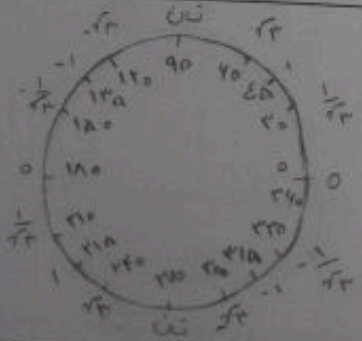


۳ کسینوس (۲)



۴ سینوس (۲)

۵ مماس (۲)



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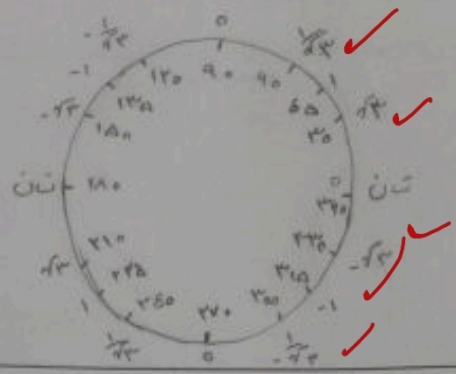
کتانژانت



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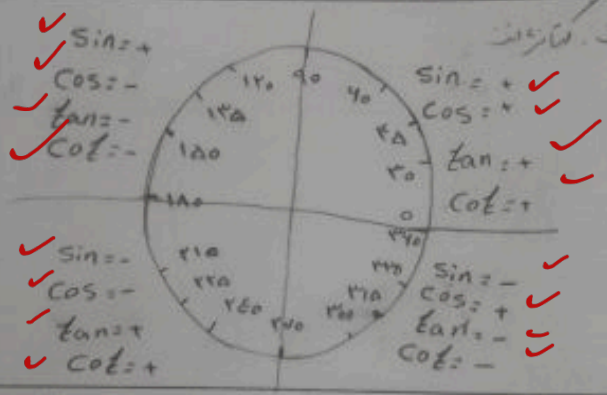
علامت سینوس - کسینوس - تانژانت - کتانژانت



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الف) $\sin y = \sin 120^\circ \rightarrow \sin 120^\circ = \frac{\sqrt{3}}{2} \rightarrow \sin y = \frac{\sqrt{3}}{2} \rightarrow y = 60^\circ$

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

ج) $\tan \square = \tan 240^\circ \rightarrow \tan 240^\circ = \frac{\frac{\sqrt{3}}{2}}{\frac{1}{2}} = -\sqrt{3} \rightarrow \tan \square = -\sqrt{3} \rightarrow \square = 120^\circ$

د) $\cot \square = \cot 135^\circ \rightarrow \cot 135^\circ = \frac{\frac{\sqrt{2}}{2}}{\frac{\sqrt{2}}{2}} = -1 \rightarrow \cot \square = -1 \rightarrow \square = 315^\circ$

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

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

ب) $-\left(\cos \frac{11\pi}{4}\right) = \sin \square \Rightarrow \sin \square = -\frac{\sqrt{2}}{2} \rightarrow \square = 45^\circ, 315^\circ \rightarrow 45^\circ = \frac{\pi}{4}, 315^\circ = \frac{7\pi}{4}$

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الف) $\cot \frac{7\pi}{4}, \cos \square \rightarrow \cot \frac{7\pi}{4} = -1 \rightarrow \cos \square = -1 \rightarrow \square = 180^\circ$

ب) $-\left(\cos 45^\circ\right) = \sin \square \Rightarrow \sin \square = \frac{\sqrt{2}}{2} \rightarrow \square = 45^\circ, 135^\circ$