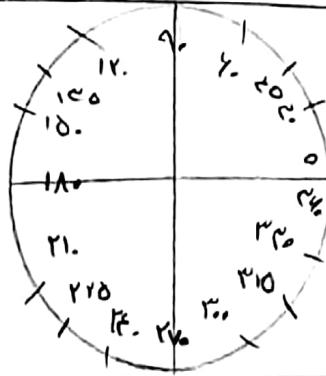
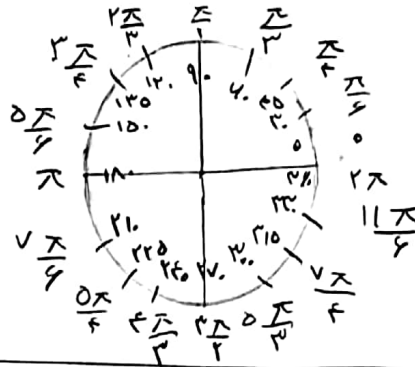


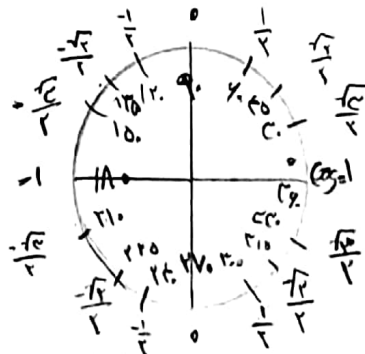
نام و نام خانوادگی: امیر شاه هری
 باسخرامه تشریحی تکلیف شماره ۲ کلاس پنجم
 A



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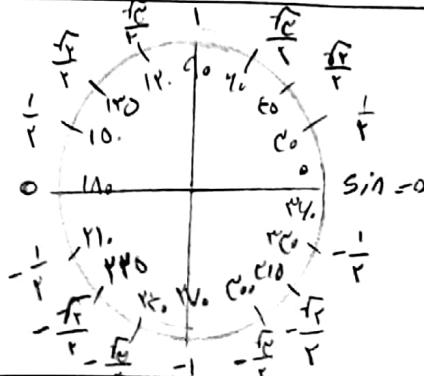


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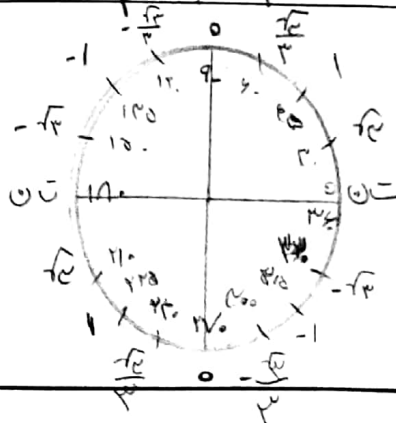
cos

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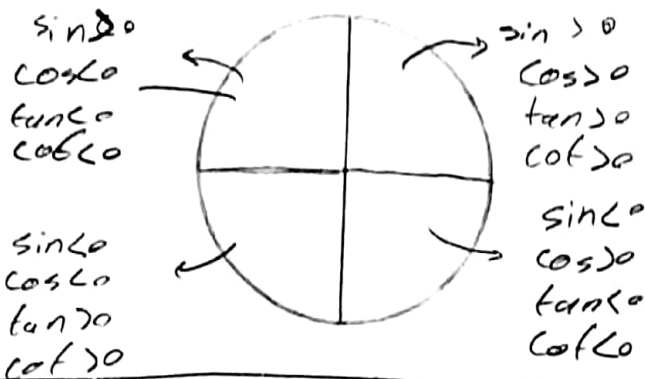
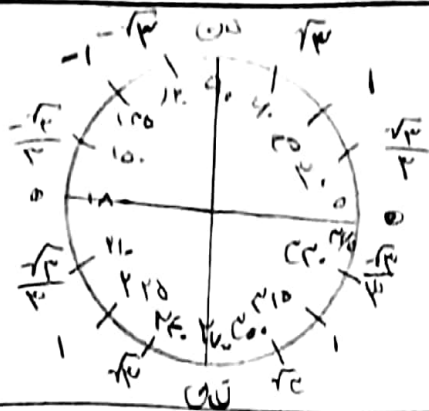
sin

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tan

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الف) $\sin 150^\circ = \frac{\sqrt{3}}{2} = \sin 30^\circ = \frac{1}{2}$

ب) $\cos 150^\circ = -\frac{1}{2} = \cos 210^\circ = -\frac{1}{2}$

ج) $\tan 150^\circ = -\frac{1}{\sqrt{3}} = \tan 210^\circ = \frac{1}{\sqrt{3}}$

د) $\cot 150^\circ = -\sqrt{3} = \cot 210^\circ = \sqrt{3}$

الف) $\frac{2\pi}{3} = 120^\circ \rightarrow -\cos 120^\circ = \frac{1}{2} \Rightarrow \sin \alpha = \frac{1}{2} \Rightarrow \alpha = 30^\circ, \alpha = 150^\circ$

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

ب) $\frac{11\pi}{6} = 330^\circ \rightarrow -\cos 330^\circ = -\frac{\sqrt{3}}{2} \Rightarrow \sin \alpha = -\frac{\sqrt{3}}{2} \Rightarrow \alpha = 210^\circ, \alpha = 330^\circ$

$\downarrow$
 $\frac{7\pi}{6}$ $\downarrow$
 $\frac{11\pi}{6}$

الف) $\cot \frac{7\pi}{6} = \cot 210^\circ = -\frac{1}{\sqrt{3}} \Rightarrow \cos \alpha = -1 \Rightarrow \alpha = 180^\circ$

ب) $\cos 150^\circ = -\frac{\sqrt{3}}{2} \rightarrow \frac{\sqrt{3}}{2} = \sin \alpha \Rightarrow \alpha = 30^\circ, \alpha = 150^\circ$