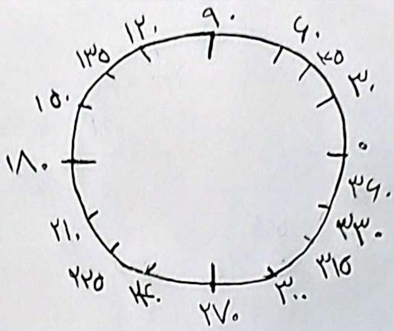
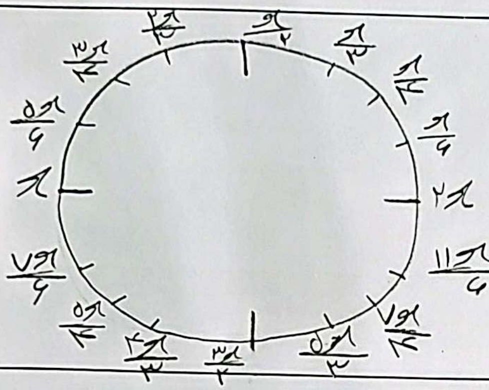
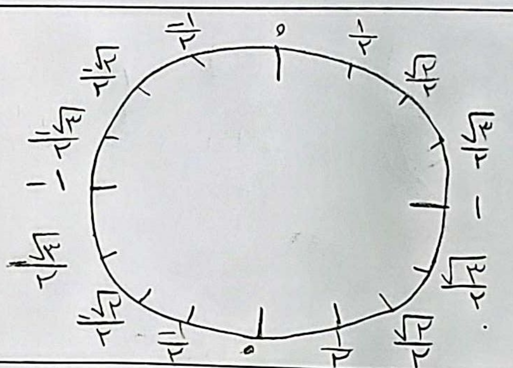
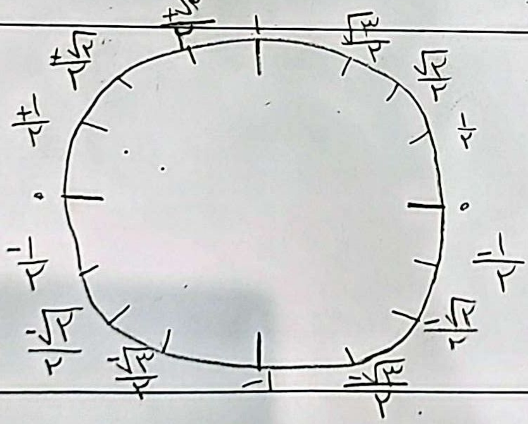
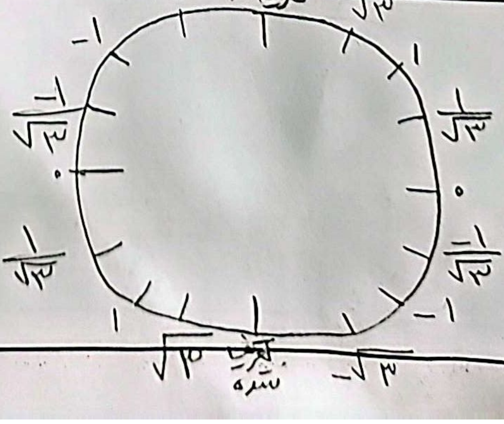
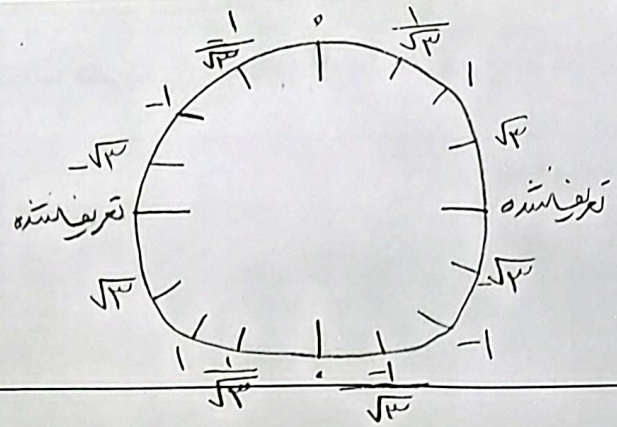
نام و نام خانوادگی .... پاسخنامه تشریحی تکلیف شماره ...۲... کلاس ....

۱	
۲	
۳	cos ها : 
۴	sin ها : 
۵	tan ها : 

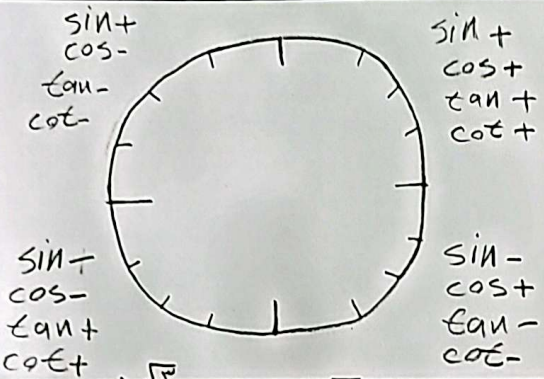
۶

دایره cot:



۷

علامت‌ها:



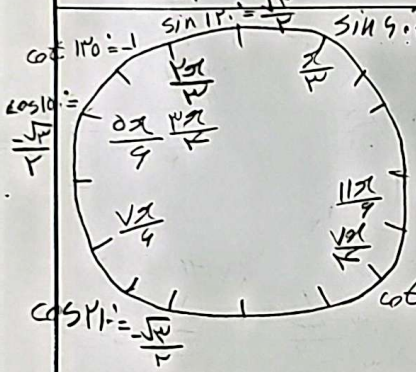
۸

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

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

ج) $\tan 330^\circ = \frac{\sin 330^\circ}{\cos 330^\circ} = \frac{\frac{-1}{2}}{\frac{\sqrt{3}}{2}} = \frac{-1}{\sqrt{3}} = -\tan 150^\circ$

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



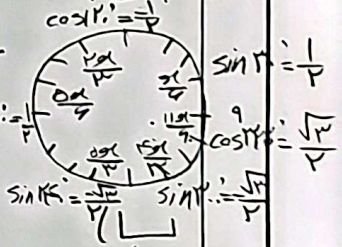
۹

الف) $-\left(\cos\frac{2\pi}{3}\right) = -(\cos 120^\circ) = \frac{+1}{2} = \sin 30^\circ$ یا 150°

$\frac{\pi}{6}$ یا $\frac{5\pi}{6}$

ب) $-\left(\cos\frac{11\pi}{6}\right) = -(\cos 330^\circ) = \frac{-\sqrt{3}}{2} = \sin 240^\circ$ یا 300°

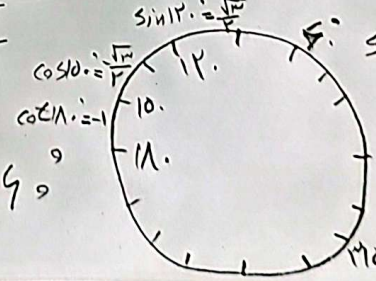
$\frac{4\pi}{3}$ یا $\frac{5\pi}{3}$



۱۰

الف) $\cot\frac{7\pi}{4} = \cot 315^\circ = \frac{\cos 315^\circ}{\sin} = \frac{\frac{\sqrt{2}}{2}}{\frac{-\sqrt{2}}{2}} = -1 = \cos 180^\circ$

ب) $\cos 150^\circ = \frac{-\sqrt{3}}{2} \xrightarrow{\text{قرینه}} \frac{\sqrt{3}}{2} = \sin 120^\circ, 60^\circ$



$\cot 315^\circ = -1$