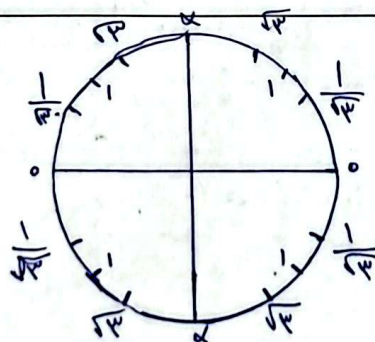
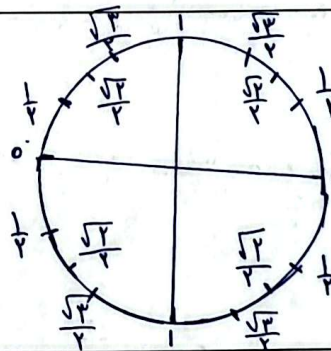
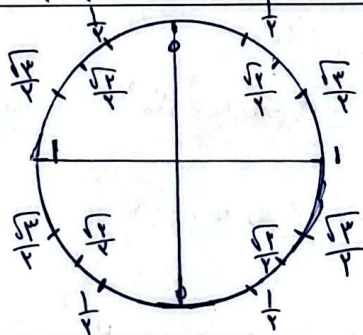
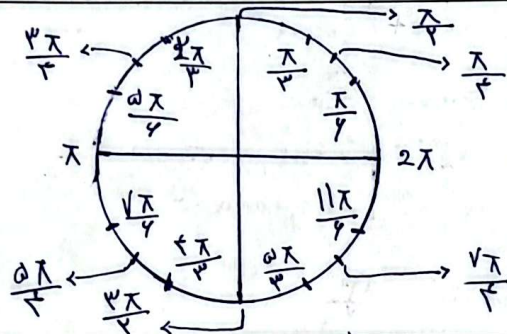
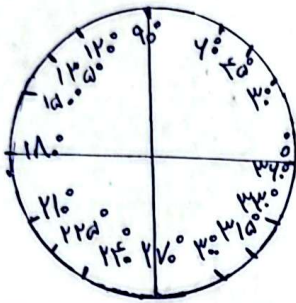
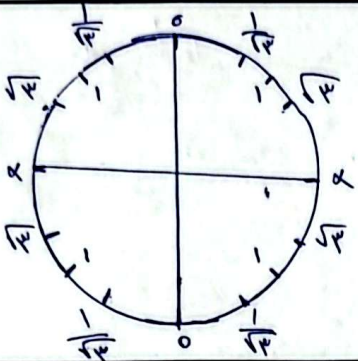
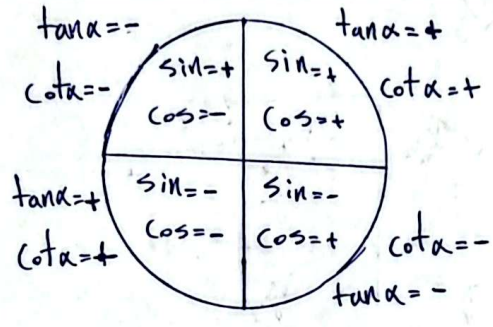




خرج صفر است → ندارد → α

 خرج مناسبت → نداد α	٦
 $\tan \alpha = -$ $\cot \alpha = -$ $\tan \alpha = +$ $\cot \alpha = +$ $\tan \alpha = +$ $\cot \alpha = +$ $\tan \alpha = -$ $\cot \alpha = -$	٧
$\sin \alpha = \sin 15^\circ \rightarrow \alpha = 40^\circ \rightarrow \sin 15^\circ = +\frac{\sqrt{3}}{2}$ $\cos \alpha = \cos 15^\circ \rightarrow \cos 15^\circ = -\frac{\sqrt{3}}{2} \rightarrow \alpha = 210^\circ$ $\tan \alpha = \tan 30^\circ \rightarrow \tan 30^\circ = \frac{-\frac{\sqrt{3}}{2}}{+\frac{1}{2}} = -\sqrt{3} \rightarrow \alpha = 120^\circ$ $\cot \alpha = \cot 135^\circ \rightarrow \cot 135^\circ = \frac{-\frac{1}{2}}{+\frac{\sqrt{3}}{2}} = -1 \rightarrow \alpha = 315^\circ$	الف) 40° ب) 210° ج) 120° د) 315° ٨
$-(\cos \frac{5\pi}{6}) = \sin \alpha \rightarrow \cos \frac{5\pi}{6} = -\frac{1}{2} \rightarrow \frac{1}{2} = \sin \alpha \rightarrow \alpha = 30^\circ, 150^\circ \rightarrow \frac{\pi}{6}, \frac{5\pi}{6}$ $-(\cos \frac{11\pi}{6}) = \sin \alpha \rightarrow \cos \frac{11\pi}{6} = +\frac{\sqrt{3}}{2} \rightarrow -\frac{\sqrt{3}}{2} = \sin \alpha \rightarrow \alpha = 210^\circ, 330^\circ \rightarrow \frac{7\pi}{6}, \frac{11\pi}{6}$	الف) $\frac{\pi}{6}, \frac{5\pi}{6}$ ب) $\frac{7\pi}{6}, \frac{11\pi}{6}$ ٩
$\cot \frac{5\pi}{6} = \cos \alpha \rightarrow \cot \frac{5\pi}{6} = \frac{+\frac{\sqrt{3}}{2}}{-\frac{1}{2}} = -1 = \cos \alpha \rightarrow \alpha = 180^\circ$ $-(\cos 150^\circ) = \sin \alpha \rightarrow \cos 150^\circ = -\frac{\sqrt{3}}{2} \rightarrow \frac{\sqrt{3}}{2} = \sin \alpha \rightarrow \alpha = 40^\circ, 140^\circ$	الف) 180° ب) $40^\circ, 140^\circ$ ١٠