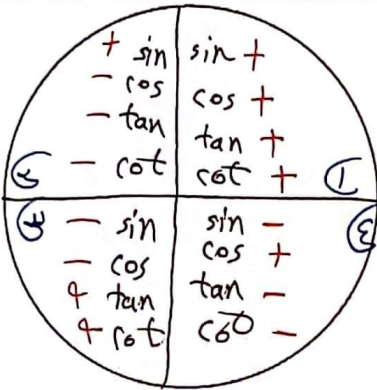
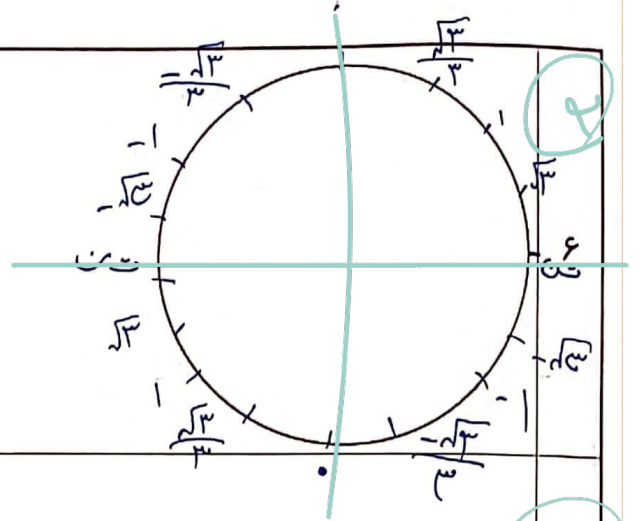


$$\cot \theta = \frac{\cos}{\sin}$$



الف) $\sin 120^\circ = \sin 60^\circ$ ✓

ب) $\cos 150^\circ = \cos 30^\circ$ ✓

ج) $\tan 225^\circ = \tan 45^\circ$ ✓

د) $\cot 135^\circ = \cot 45^\circ$ ✓

این سوال تستی بوده و نیاز به توضیح راه حل ندارد

الف) $\cos \frac{2\pi}{3} = \cos 120^\circ = -\frac{1}{2} = \frac{1}{2}$ ✓

$\sin 30^\circ = \sin 150^\circ = \frac{1}{2}$

$\frac{5\pi}{6}$ و $\frac{\pi}{6}$ ✓

الف)

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

$\sin 150^\circ = \frac{-\sqrt{3}}{2} = \frac{1\pi}{2}$ و $\sin 30^\circ = \frac{-\sqrt{3}}{2} = \frac{5\pi}{6}$ ✓

$\frac{5\pi}{6}$ و $\frac{\pi}{6}$ ✓

$\frac{5\pi}{6}$ و $\frac{\pi}{6}$ ✓

ب)

$\cot \frac{7\pi}{6} = \cot 210^\circ = -1$

$\cos 180^\circ = -1$

π و 180°

ج)

$\cos 150^\circ = \frac{-\sqrt{3}}{2} = \frac{\sqrt{3}}{2}$

$\sin 30^\circ, 120^\circ = \frac{\sqrt{3}}{2}$

120° و 30°

د)