

۱۰۰

سوال ۱

40

9.



سوال نم

(OS)

سوال ۳



امیان



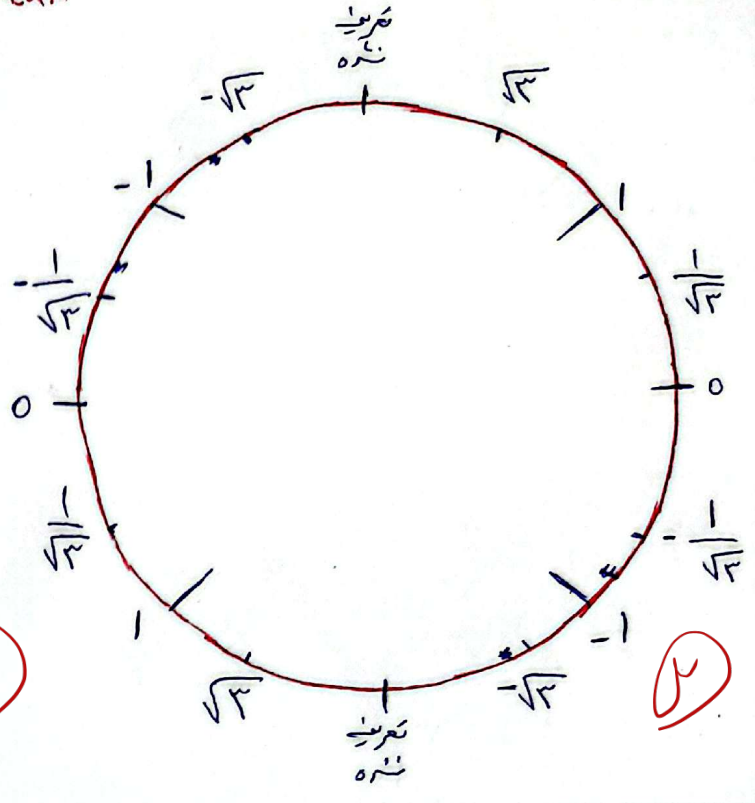
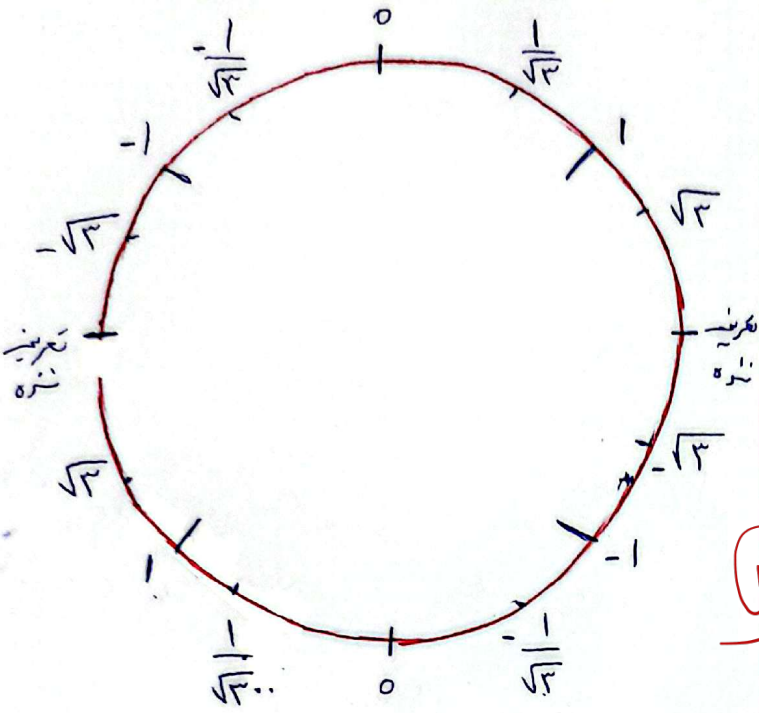
sin



سوال ۵

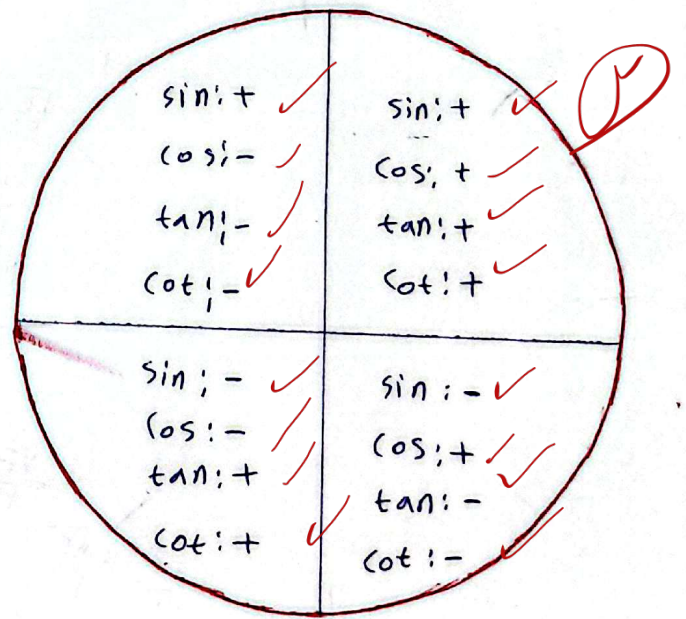
tan سوال ۶

cot



علائق

سوال ۷



الف) $\sin 120^\circ = \sin 30^\circ = \frac{\sqrt{3}}{2}$ ← 4 درجه ←

ب) $\cos 150^\circ = \cos 30^\circ = \frac{\sqrt{3}}{2}$ ← 11 درجه ←

ج) $\tan 120^\circ = \frac{-1}{\frac{\sqrt{3}}{2}} = -\frac{2}{\sqrt{3}}$ ← 150 درجه ← (2)

د) $\cot 120^\circ = \frac{-\frac{\sqrt{3}}{2}}{\frac{-1}{2}} = \frac{\sqrt{3}}{1} = \sqrt{3}$ ← 30 درجه ← (د)

ب

$\cos \frac{7\pi}{6} = \cos 120^\circ = -\frac{1}{2} \rightarrow \frac{7\pi}{6} \rightarrow \frac{1}{2} = \sin 30^\circ$ ← 120 درجه ←

$\sin \frac{\pi}{6}$

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

الف) ب

9

$\cos \frac{11\pi}{6} = \cos 330^\circ = \frac{\sqrt{3}}{2} \rightarrow -\frac{\sqrt{3}}{2} \rightarrow \frac{\sqrt{3}}{2} = \sin 30^\circ, \sin 30^\circ$

$\sin \frac{4\pi}{3}$

$\sin \frac{2\pi}{3}$

ب

$\cot \frac{7\pi}{6} = \cot 120^\circ = -1 = \cos 120^\circ$

$\frac{1}{\frac{-1}{2}} = -\frac{2}{1} = -2$

ب

1.

$\cos 120^\circ = -\frac{1}{2}, \sin 120^\circ = \frac{\sqrt{3}}{2}, \sin 30^\circ$

ب