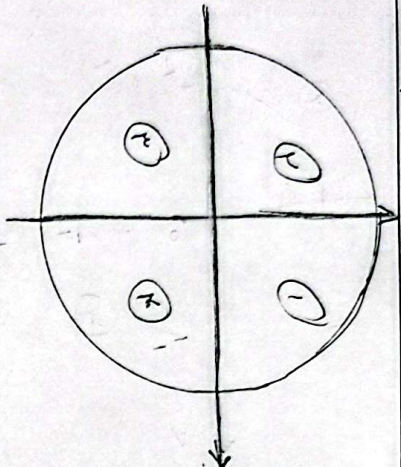
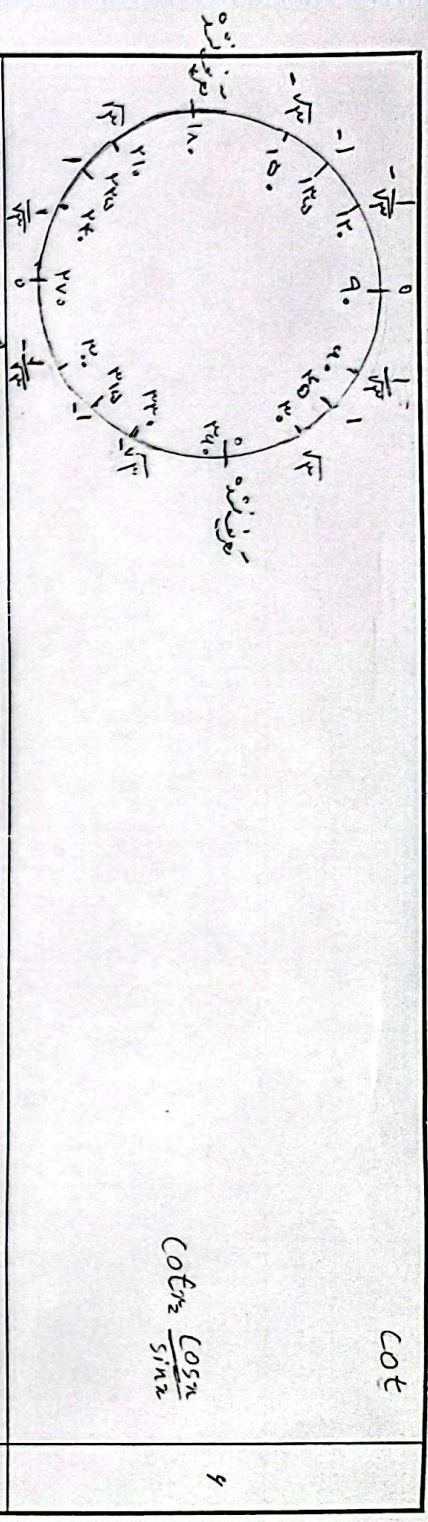




- ① : $\sin > 0$ $\cos > 0$ $\tan > 0$ $\cot > 0$
- ② : $\sin > 0$ $\cos < 0$ $\tan < 0$ $\cot < 0$
- ③ : $\sin < 0$ $\cos < 0$ $\tan > 0$ $\cot > 0$
- ④ : $\sin < 0$ $\cos > 0$ $\tan < 0$ $\cot < 0$

1

الف) $\sin 15^\circ \sin 75^\circ = \frac{\sqrt{3}}{4} \Rightarrow 4^\circ$

ب) $\cos 15^\circ = \cos 75^\circ = \frac{\sqrt{3}}{4} \Rightarrow 15^\circ$

ج) $\tan 15^\circ \tan 75^\circ = \frac{1}{4} \Rightarrow 15^\circ$

د) $\cot 15^\circ = \cot 75^\circ = 1 \Rightarrow 15^\circ$

1

الف) $-\cos \frac{11\pi}{4} = \sin \alpha$ $\alpha = 15^\circ$ $\alpha = \frac{5\pi}{12}$

ب) $-\cos \frac{11\pi}{4} = \sin \alpha$ $\alpha = 15^\circ$ $\alpha = \frac{5\pi}{12}$

ج) $-\cos \frac{11\pi}{4} = \sin \alpha$ $\alpha = 15^\circ$ $\alpha = \frac{5\pi}{12}$

د) $-\cos \frac{11\pi}{4} = \sin \alpha$ $\alpha = 15^\circ$ $\alpha = \frac{5\pi}{12}$

1

الف) $\cot \frac{11\pi}{4} = \cos \alpha$ $\alpha = 15^\circ$ $\alpha = \frac{5\pi}{12}$

ب) $-\cos 15^\circ = \sin \alpha$ $\alpha = 15^\circ$ $\alpha = \frac{5\pi}{12}$

1