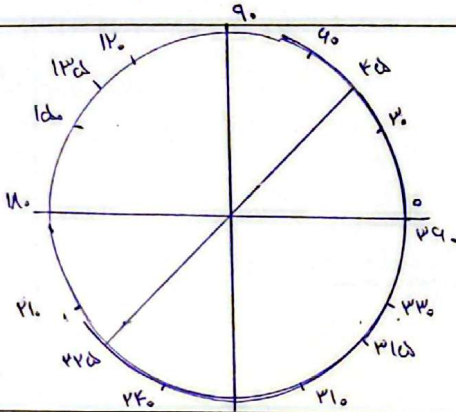
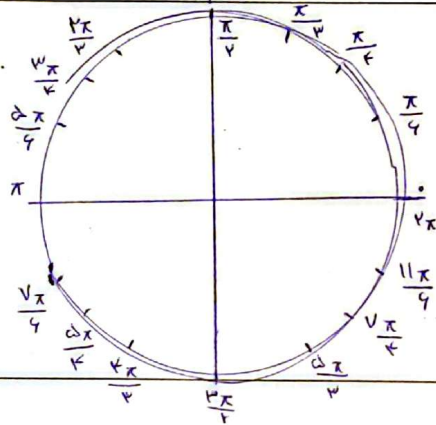
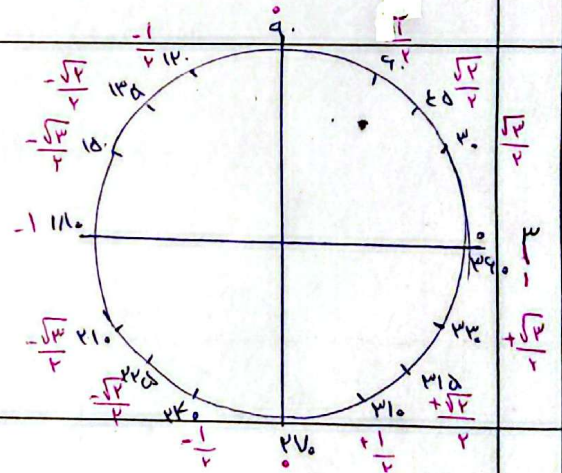




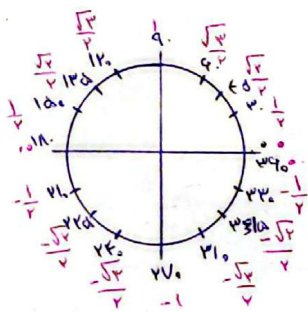
۱



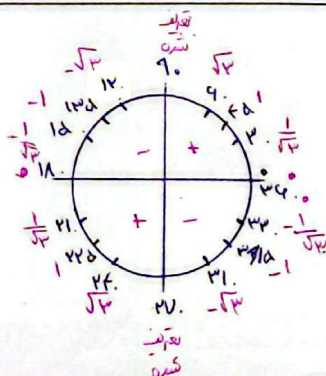
۲



۳



۴



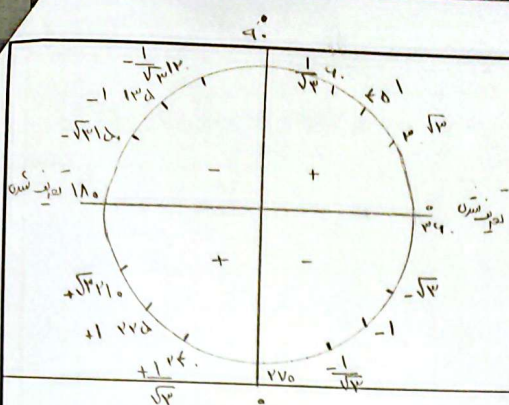
۵

$$\tan = \frac{\sin}{\cos}$$

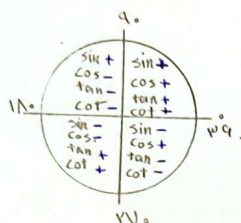
$$\cot = \frac{\cos}{\sin}$$

$$\tan = \frac{\sin}{\cos}$$

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



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



$$\tan 135^\circ = -\frac{1}{\sqrt{2}} \Leftrightarrow \tan 225^\circ = -\frac{1}{\sqrt{2}} \quad \text{ج}$$

$$\sin 45^\circ = \frac{\sqrt{2}}{2} \Leftrightarrow \sin 135^\circ = \frac{\sqrt{2}}{2} \quad \text{لـ}$$

$$\cot 135^\circ = -1 \Leftrightarrow \cot 225^\circ = -1 \quad \text{د}$$

$$\cos 135^\circ = -\frac{\sqrt{2}}{2} \Leftrightarrow \cos 225^\circ = -\frac{\sqrt{2}}{2} \quad \text{ب}$$

$$\text{ا) } \cos \frac{\pi}{4} = \cos 45^\circ = \frac{\sqrt{2}}{2} \xrightarrow{\text{نقطة}} \frac{1}{\sqrt{2}} \quad \sin \alpha = \frac{1}{\sqrt{2}} \quad \sin 45^\circ = \frac{1}{\sqrt{2}} \quad \sin \frac{\pi}{4} = \frac{1}{\sqrt{2}} \quad \sin 135^\circ = \frac{1}{\sqrt{2}} \quad \sin \frac{3\pi}{4} = \frac{1}{\sqrt{2}}$$

$$\text{ب) } \cos \frac{3\pi}{4} = \cos 135^\circ = -\frac{\sqrt{2}}{2} \xrightarrow{\text{نقطة}} -\frac{1}{\sqrt{2}} \quad \sin \alpha = -\frac{1}{\sqrt{2}} \quad \sin 135^\circ = -\frac{1}{\sqrt{2}} \quad \sin \frac{5\pi}{4} = -\frac{1}{\sqrt{2}} \quad \sin 225^\circ = -\frac{1}{\sqrt{2}} \quad \sin \frac{7\pi}{4} = -\frac{1}{\sqrt{2}}$$

$$\text{ج) } \cot \frac{\pi}{4} = \cot 45^\circ = 1 \quad \cos \alpha = 1 \quad \cos 0^\circ = 1 \quad \cos 360^\circ = 1$$

$$\text{د) } \cos 135^\circ = -\frac{\sqrt{2}}{2} \xrightarrow{\text{نقطة}} -\frac{1}{\sqrt{2}} \quad \sin \alpha = \frac{\sqrt{2}}{2} \quad \sin 45^\circ = \frac{\sqrt{2}}{2} \quad \sin 135^\circ = \frac{\sqrt{2}}{2}$$