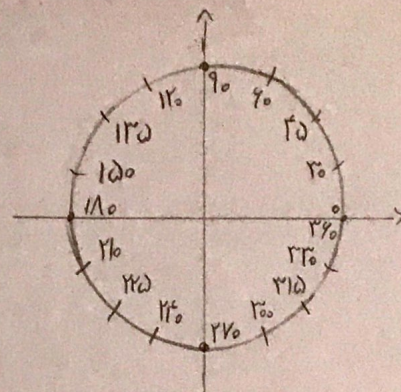
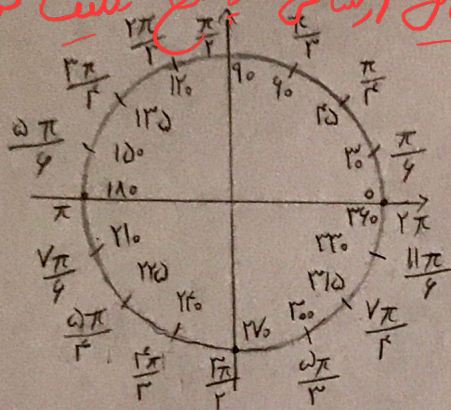


مال ارسالی با سفید رنگ شده

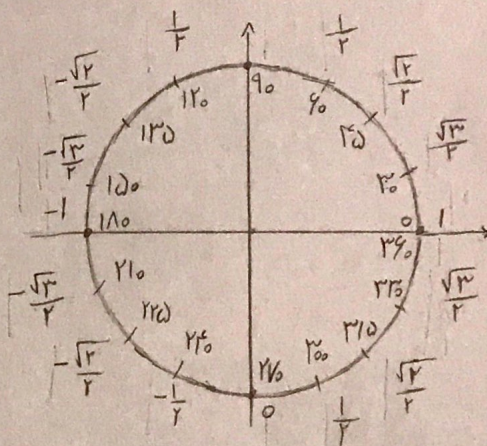
(۱)



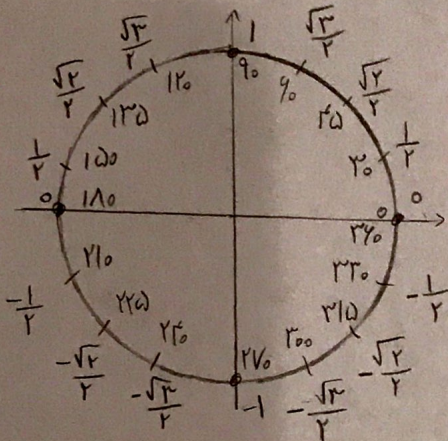
(۲)



(۳)

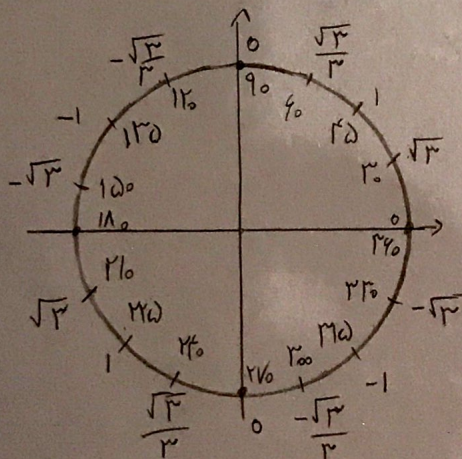
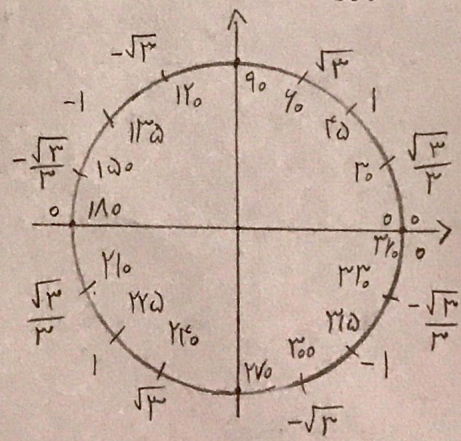


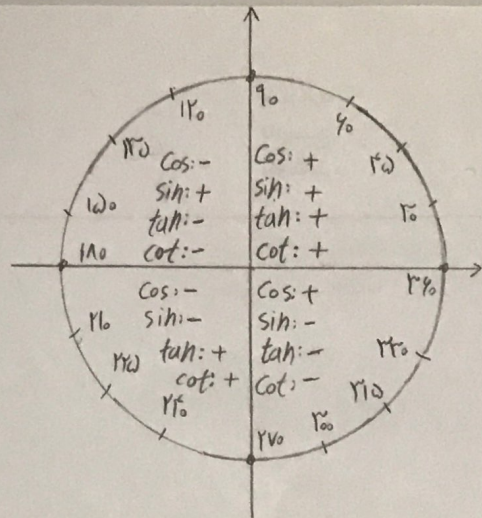
(۴)



(۵) تانژانت: $\frac{\sin}{\cos}$ کتانژانت: $\frac{\cos}{\sin}$ برای $90^\circ, 270^\circ$ تعریف نشده است

(۶) کتانژانت: $\frac{\cos}{\sin}$ برای $0^\circ, 180^\circ, 360^\circ$ تعریف نشده است





$$\cos 120^\circ = -\frac{\sqrt{3}}{2} \quad \boxed{120^\circ} \quad (-)$$

$$\cos 210^\circ = -\frac{\sqrt{3}}{2}$$

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

$$\sin 210^\circ = -\frac{\sqrt{3}}{2}$$

$$\boxed{90^\circ} \quad (-) \quad (1)$$

$$\cot 120^\circ = -1 \quad \boxed{120^\circ} \quad (-)$$

$$\cot 210^\circ = -1$$

$$\tan 120^\circ = -\frac{\sqrt{3}}{3}$$

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

$$\boxed{150^\circ} \quad (-) \quad (2)$$

$$\frac{2\pi}{3} = 120^\circ \text{ زاوية}$$

$$\cos 120^\circ = -\frac{1}{2} \xrightarrow{\text{من 1}} \frac{1}{2}$$

$$\sin 120^\circ = \frac{1}{2} \rightarrow \frac{2\pi}{3}$$

$$\sin 30^\circ = \frac{1}{2} \rightarrow \frac{\pi}{6}$$

$$(-) \quad (9)$$

$$\frac{11\pi}{6} = 330^\circ \text{ زاوية}$$

$$\cos 210^\circ = \frac{\sqrt{3}}{2} \xrightarrow{\text{من 1}} -\frac{\sqrt{3}}{2}$$

$$\sin 210^\circ = -\frac{\sqrt{3}}{2} \rightarrow \frac{4\pi}{3}$$

$$\sin 300^\circ = -\frac{\sqrt{3}}{2} \rightarrow \frac{5\pi}{3}$$

$$(-)$$

$$\frac{5\pi}{6} = 150^\circ \text{ زاوية}$$

$$\cot 120^\circ = -1$$

$$\cos 180^\circ = -1$$

$$\boxed{180^\circ} \quad (-) \quad (10)$$

$$\boxed{120^\circ}, \boxed{90^\circ} \quad (-)$$

$$\cos 120^\circ = -\frac{\sqrt{3}}{2} \xrightarrow{\text{من 1}} \frac{\sqrt{3}}{2}$$

$$\sin 90^\circ = \frac{\sqrt{3}}{2}$$

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