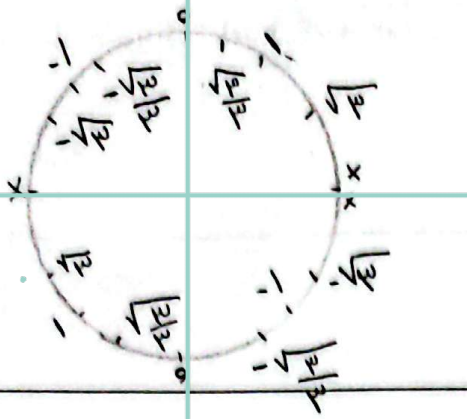
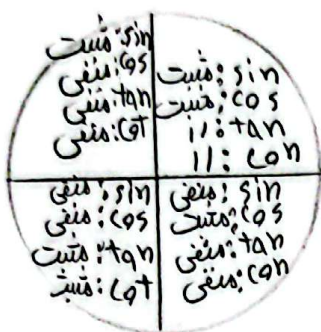




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$$\sin 120^\circ = \frac{\sqrt{3}}{2} = \sin 60^\circ$$

(الف)

$$\cos 120^\circ = -\frac{1}{2} = \cos 240^\circ$$

(ب)

$$\tan 120^\circ = -\sqrt{3} = \tan 300^\circ$$

$$\tan 330^\circ = -\frac{1}{\sqrt{3}} = \tan 210^\circ$$

(ج)

$$\cot 120^\circ = -\frac{1}{\sqrt{3}} = \cot 300^\circ$$

(د)

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$$\cos \frac{2\pi}{3} = -\frac{1}{2} \Rightarrow \text{قریب} = \frac{1}{2}$$

(الف)

$$\sin ? = \frac{1}{2} \Rightarrow ? = \frac{\pi}{6} \text{ و } \frac{5\pi}{6}$$

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$$\cos \frac{11\pi}{6} = \frac{\sqrt{3}}{2} \Rightarrow \text{قریب} = -\frac{\sqrt{3}}{2}$$

(ب)

$$\sin ? = \frac{\sqrt{3}}{2} \Rightarrow ? = \frac{\pi}{3} \text{ و } \frac{2\pi}{3}$$

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$$\cot \frac{7\pi}{4} = -1$$

(الف)

$$\sin ? = -1 \Rightarrow ? = \frac{3\pi}{2}$$

$$\cos 150^\circ = -\frac{\sqrt{3}}{2} = \cos 210^\circ$$

(ب)

$$\sin ? = \frac{\sqrt{3}}{2} \Rightarrow ? = 60^\circ, 120^\circ$$

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