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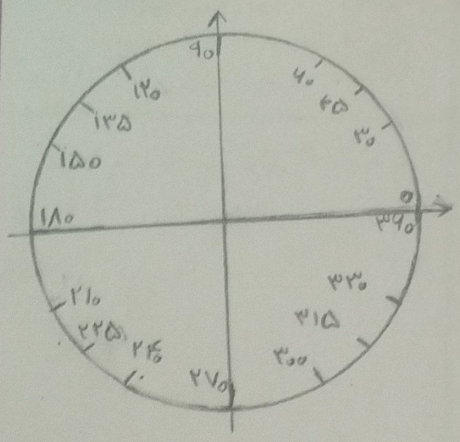

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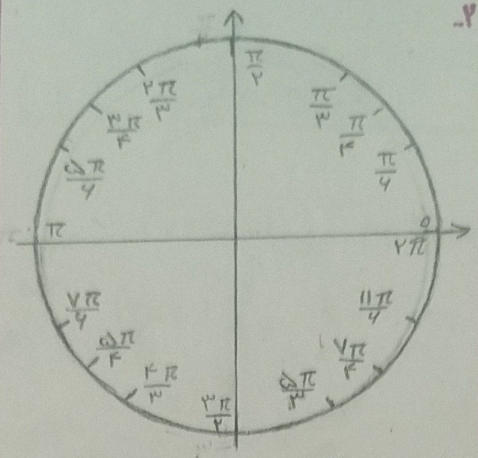

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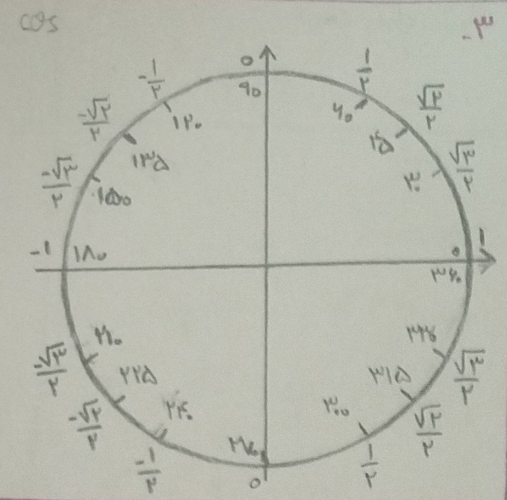

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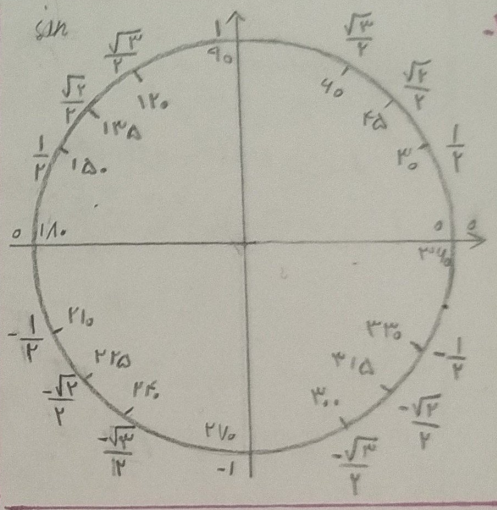

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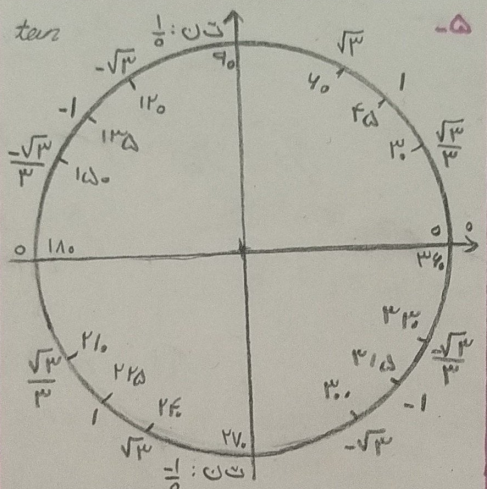

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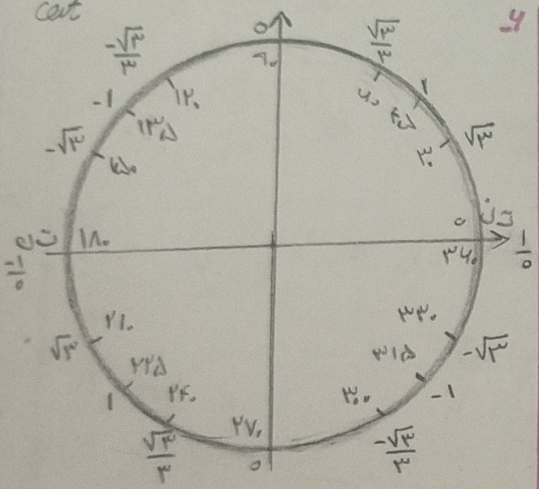

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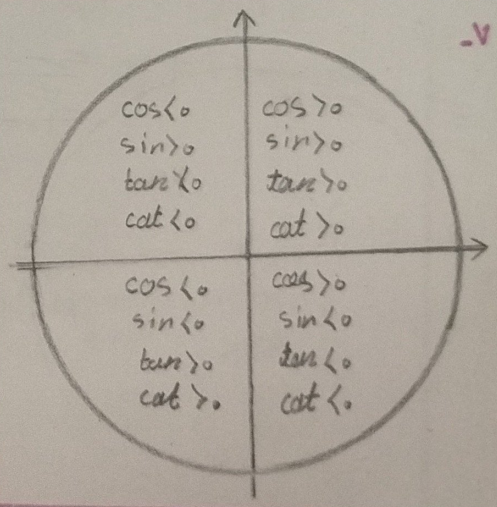

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الف) $\sin 120^\circ = \sin x = \frac{\sqrt{3}}{2}$

$x = 60^\circ$

ب) $\cos 150^\circ = \cos x = -\frac{\sqrt{3}}{2}$

$x = 210^\circ$

ج) $\tan 330^\circ = \tan x = -\frac{\sqrt{3}}{3}$

$x = 150^\circ$

د) $\cot 135^\circ = \cot x = -1$

$x = 315^\circ$

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الف) $-\cos \frac{2\pi}{3} = \sin x = \frac{1}{2}$

$x = (30^\circ = \frac{\pi}{6}), (150^\circ = \frac{5\pi}{6})$

ب) $-\cos \frac{11\pi}{4} = \sin x = -\frac{\sqrt{3}}{2}$

$x = (240^\circ = \frac{4\pi}{3}), (300^\circ = \frac{5\pi}{3})$

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الف) $-\cos 150^\circ = \sin x = \frac{\sqrt{3}}{2}$

$x = 60^\circ, 120^\circ$

ب) $\cot \frac{7\pi}{4} = \cos x = (-1)$

$x = 180^\circ$