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$\frac{\pi}{2}$
$\frac{\pi}{3}$
$\frac{\pi}{4}$
$\frac{\pi}{6}$
π
2π
$\frac{5\pi}{6}$
$\frac{7\pi}{4}$
$\frac{4\pi}{3}$
$\frac{3\pi}{2}$
$\frac{5\pi}{3}$
$\frac{11\pi}{6}$

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(۶)

(ب)

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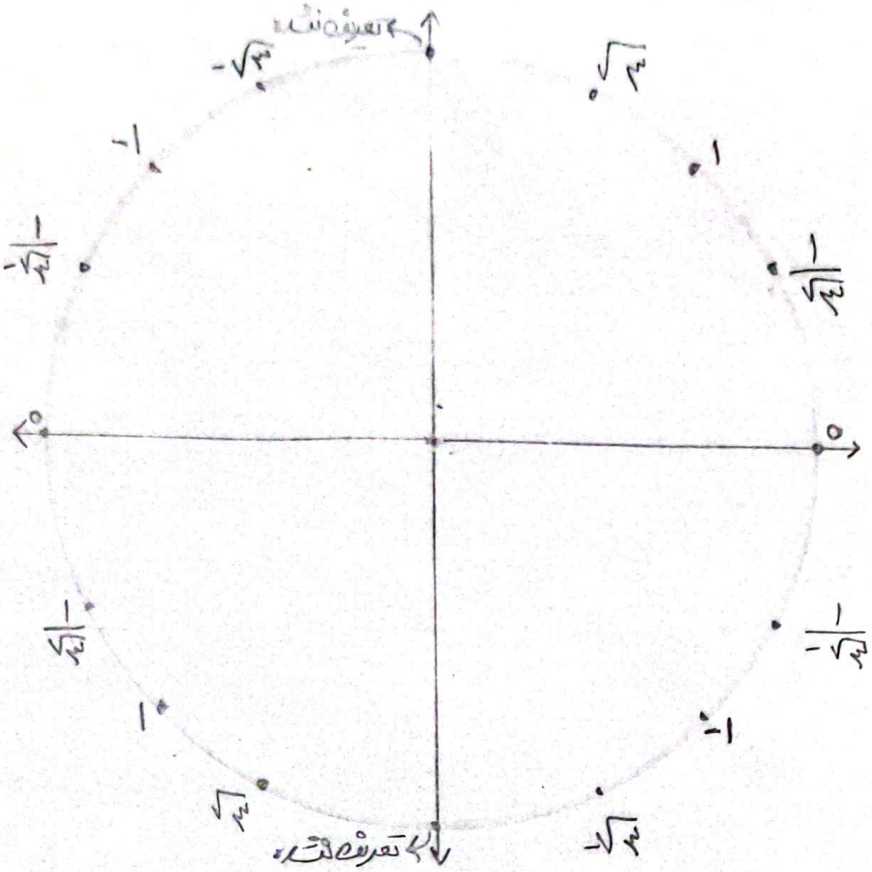

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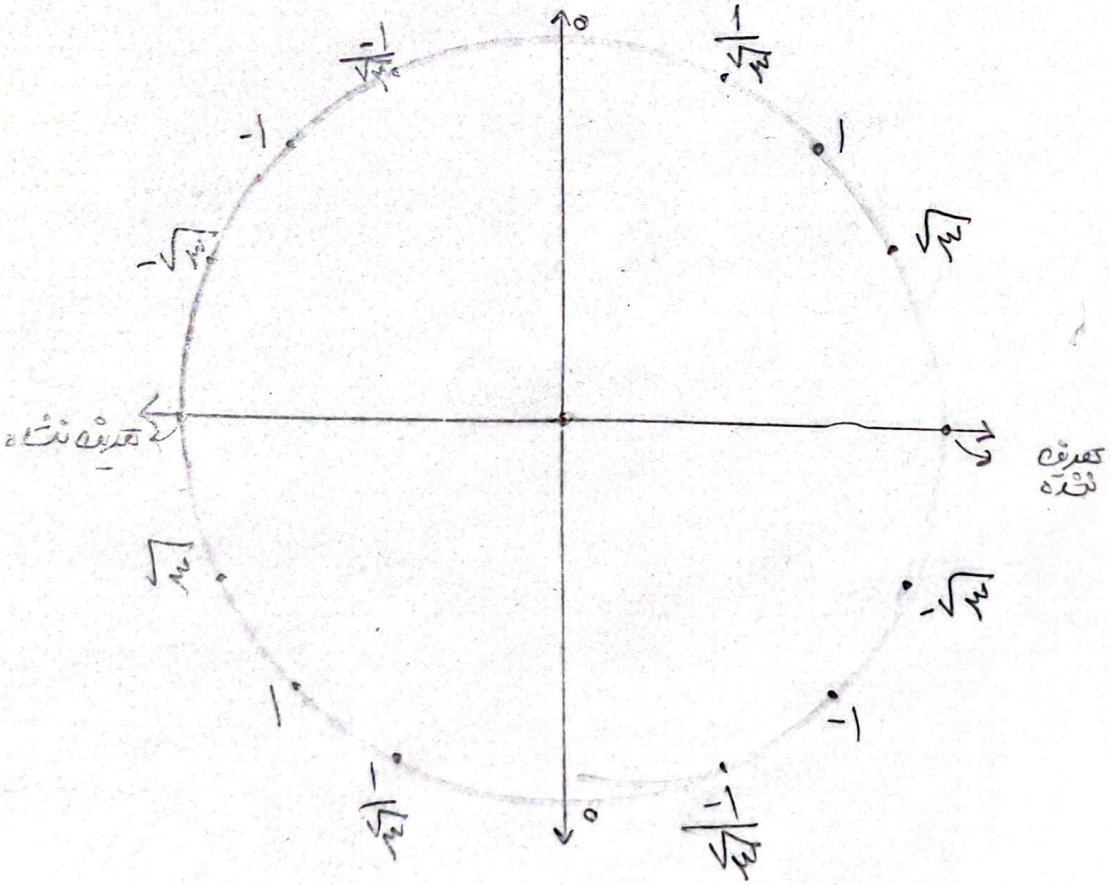

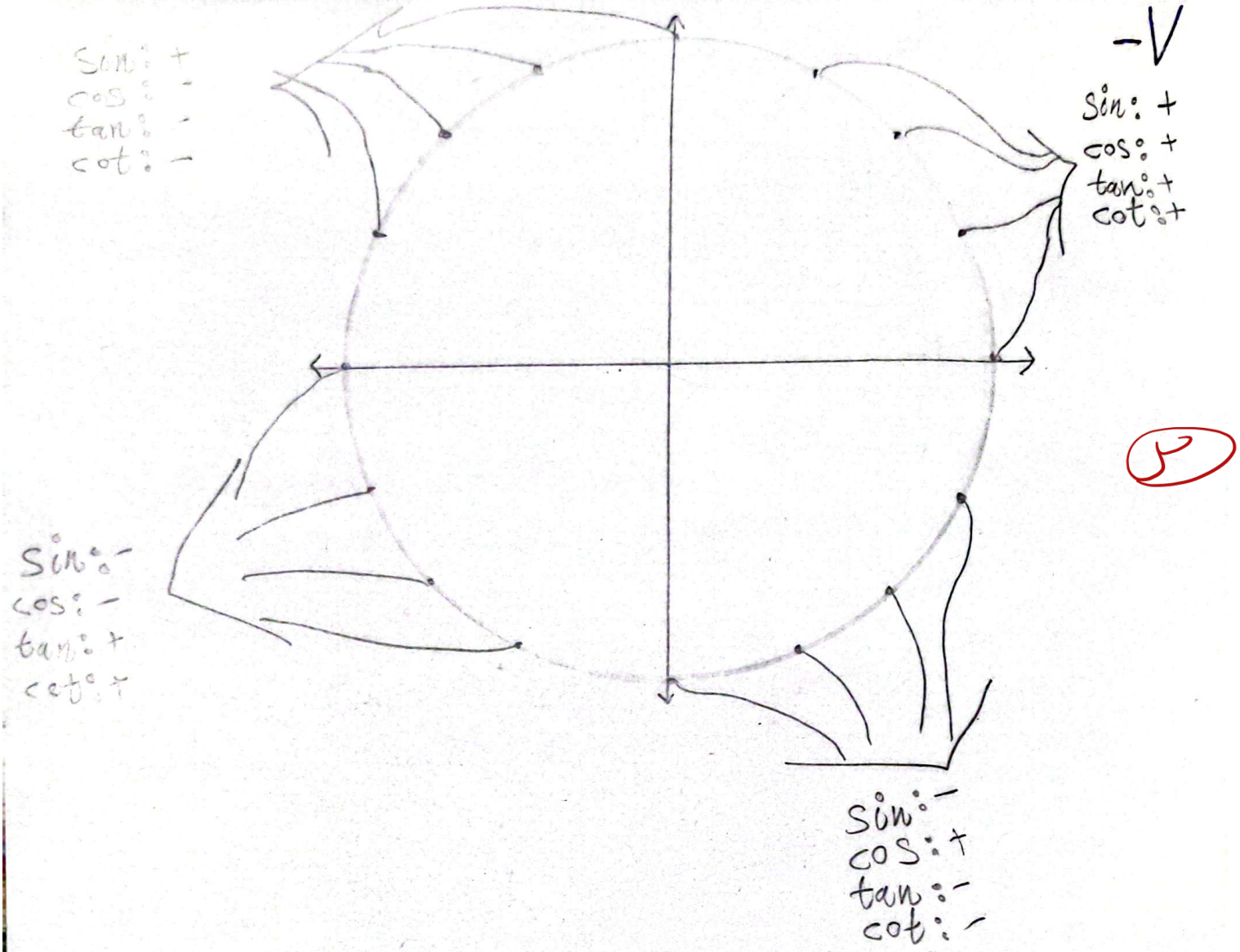
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Sin: +
cos: +
tan: +
cot: +
Sin: +
cos: -
tan: -
cot: -
Sin: -
cos: -
tan: +
cot: +
Sin: -
cos: +
tan: -
cot: -

۸)

الف) $\sin(120) = \frac{\sqrt{3}}{2} \rightarrow \sin(x) = \frac{\sqrt{3}}{2} \rightarrow x = 60$

ب) $\cos(135) = \frac{-\sqrt{2}}{2} \rightarrow \cos(x) = \frac{-\sqrt{2}}{2} \rightarrow x = 45$

ج) $\tan(330) = \frac{-1}{\sqrt{3}} \rightarrow \tan(x) = \frac{-1}{\sqrt{3}} \rightarrow x = 150$

د) $\cot(135) = -1 \rightarrow \cot(x) = -1 \rightarrow x = 135$

۹)

الف) $-(\cos(120)) = \frac{1}{2} \rightarrow \frac{1}{2} = \sin(x) \rightarrow x = \{30, 150\} = \{\frac{\pi}{6}, \frac{5}{6}\pi\}$

ب) $-(\cos(45)) = \frac{-\sqrt{2}}{2} \rightarrow \frac{-\sqrt{2}}{2} = \sin(x) \rightarrow x = \{225, 315\} = \{\frac{5}{4}\pi, \frac{7}{4}\pi\}$

۱۰)

الف) $\cot(315) = -1 \rightarrow \sin(x) = -1 \rightarrow x = 270$ ~~sin~~ cos $x = 180$ $\cos 180 = -1$

ب) $-(\cos(120)) = \frac{\sqrt{3}}{2} \rightarrow \sin(x) = \frac{\sqrt{3}}{2} \rightarrow x = \{60, 120\} = \{\frac{\pi}{3}, \frac{2\pi}{3}\}$

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