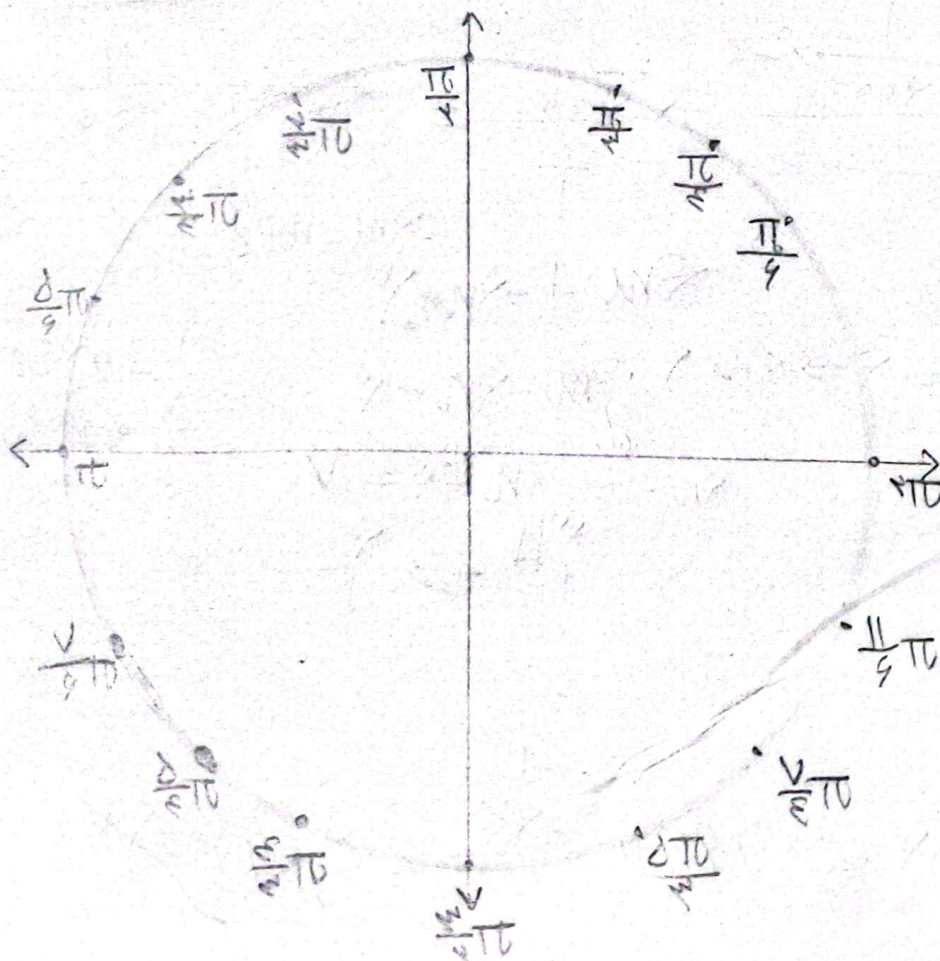
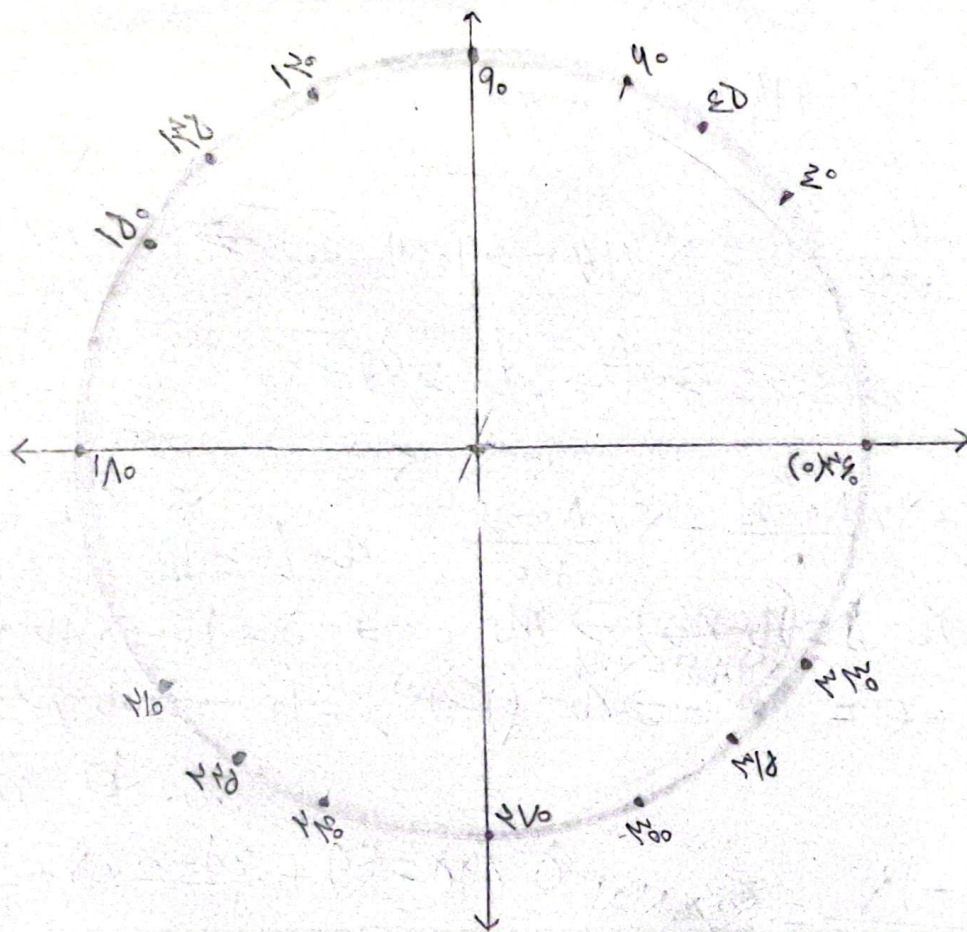
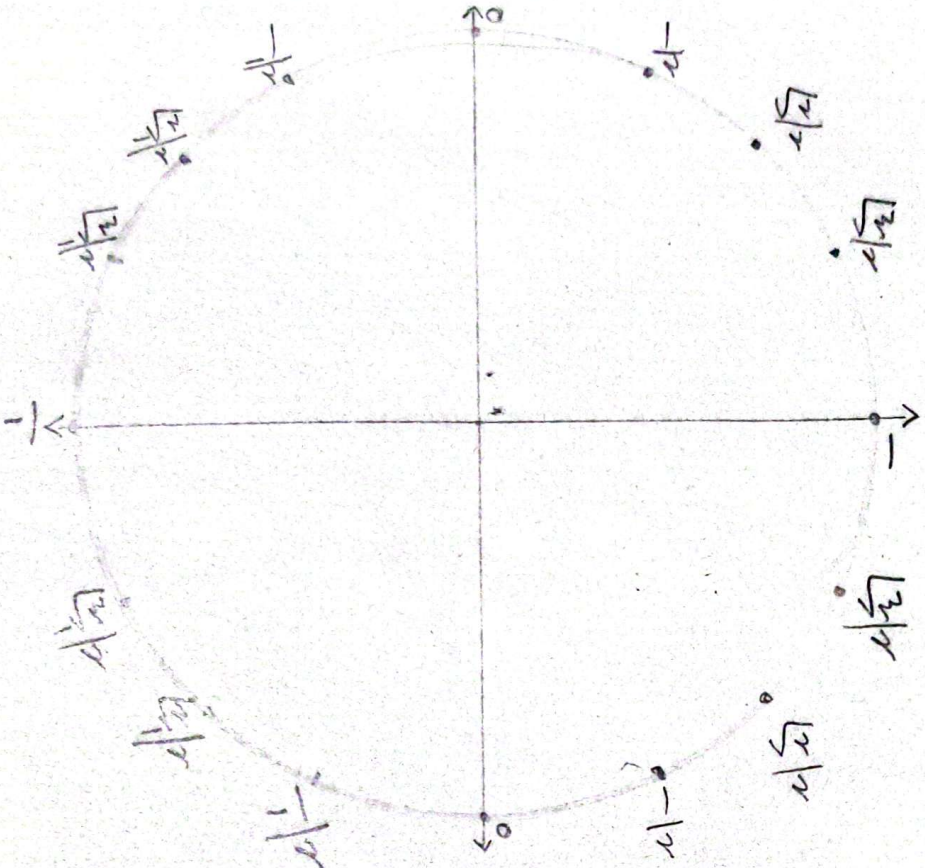
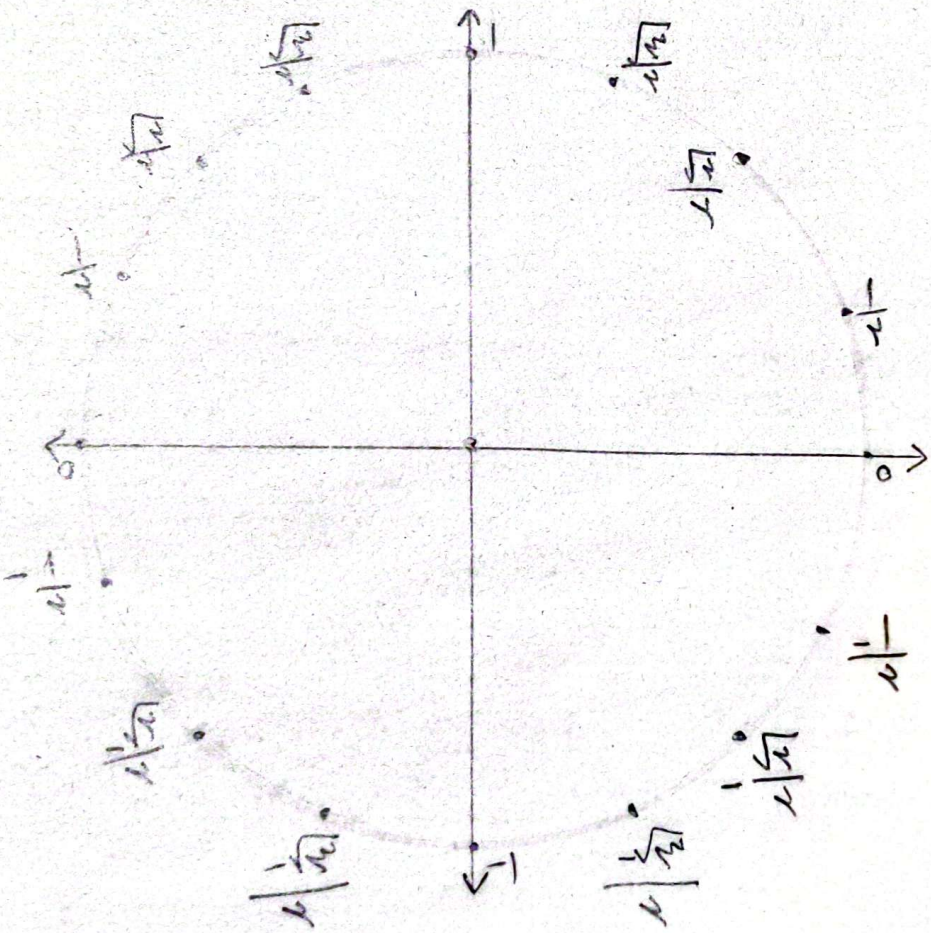




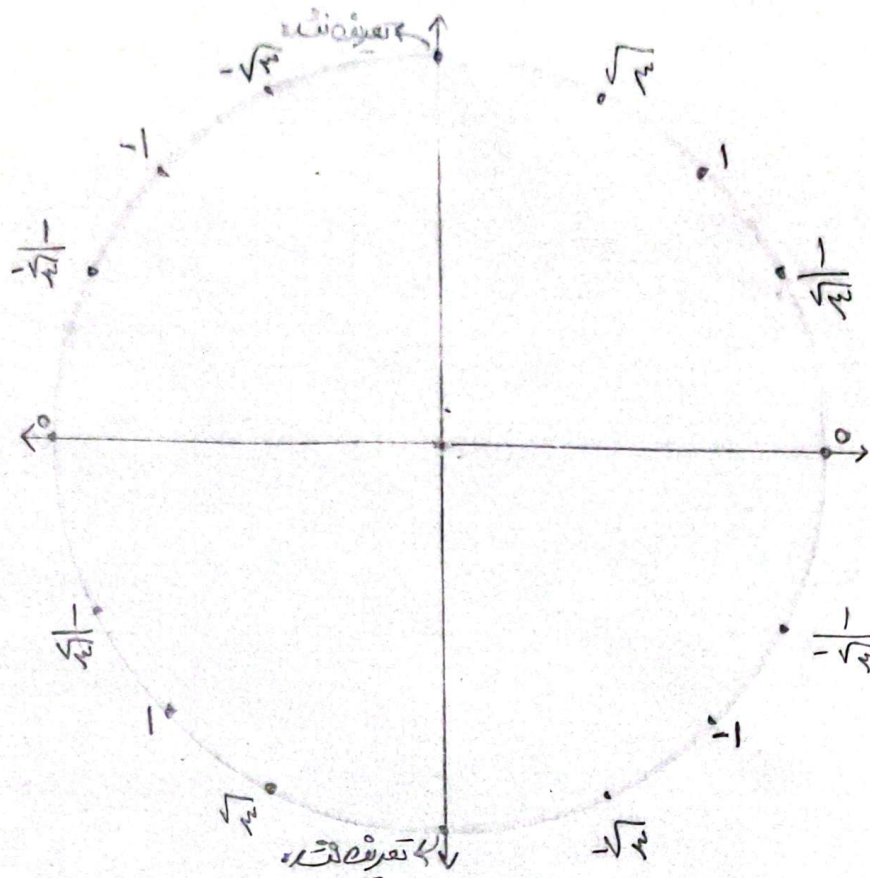
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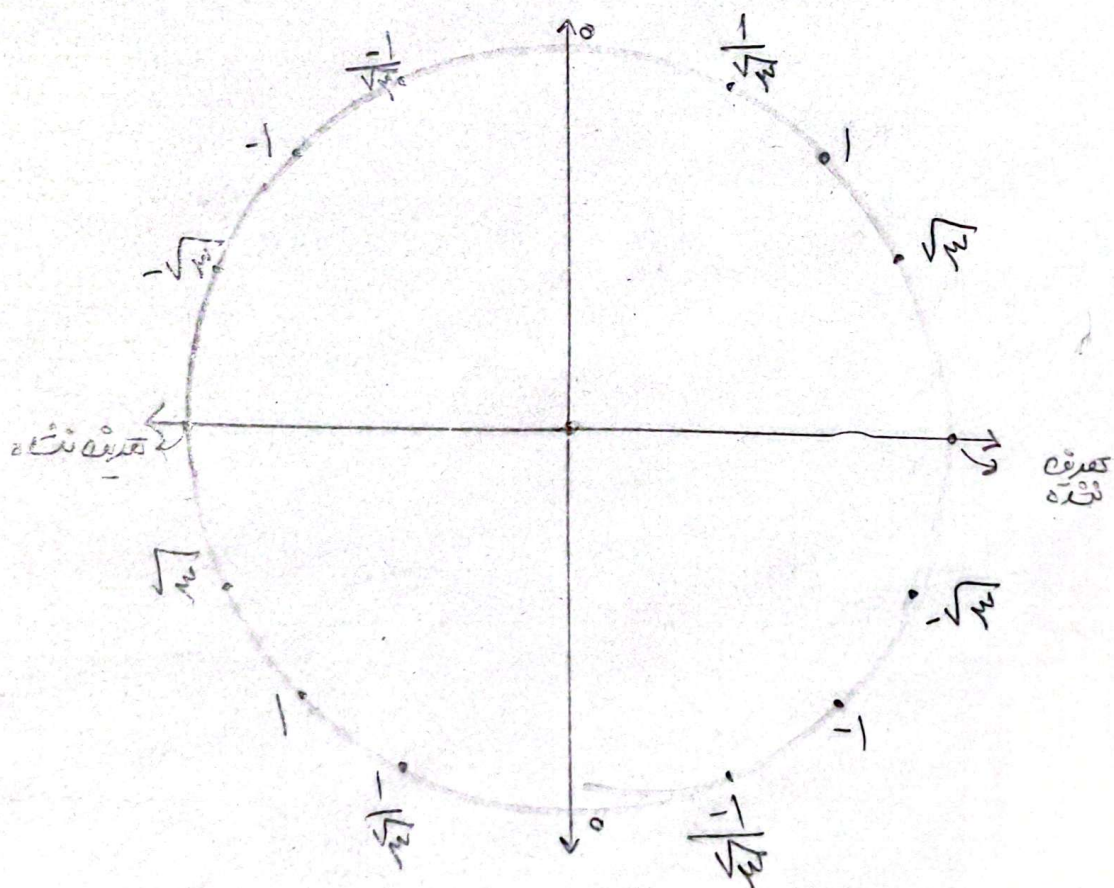
4



(c)



(d)

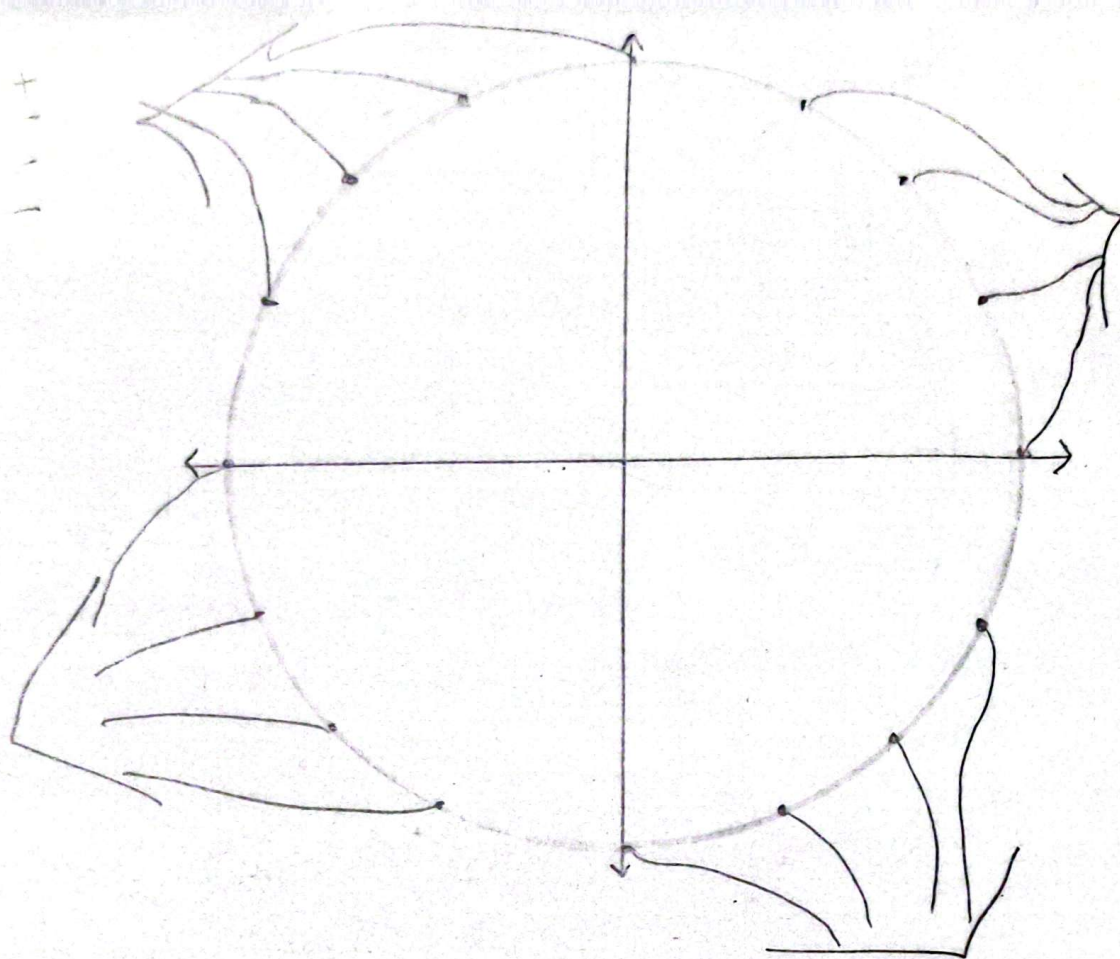


$\sin: +$
 $\cos: -$
 $\tan: -$
 $\cot: -$

$-V$
 $\sin: +$
 $\cos: +$
 $\tan: +$
 $\cot: +$

$\sin: -$
 $\cos: -$
 $\tan: +$
 $\cot: +$

$\sin: -$
 $\cos: +$
 $\tan: -$
 $\cot: -$



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

(1)

$$\text{ب) } \cos(120^\circ) = -\frac{1}{2} \rightarrow \cos(x) = -\frac{1}{2} \rightarrow x = 120^\circ$$

$$\text{ج) } \tan(45^\circ) = 1 \rightarrow \tan(x) = 1 \rightarrow x = 45^\circ$$

$$\text{د) } \cot(135^\circ) = -1 \rightarrow \cot(x) = -1 \rightarrow x = 135^\circ$$

$$\text{الف) } -(\cos(120^\circ)) = \frac{1}{2} \rightarrow \frac{1}{2} = \sin(x) \rightarrow x = \{60^\circ, 120^\circ\} = \left\{\frac{\pi}{6}, \frac{2}{3}\pi\right\} \quad (9)$$

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

$$\text{الف) } \cot(135^\circ) = -1 \rightarrow \sin(x) = -1 \rightarrow x = 270^\circ$$

(10)

$$\text{ب) } -(\cos(180^\circ)) = \frac{\sqrt{2}}{2} \rightarrow \sin(x) = \frac{\sqrt{2}}{2} \rightarrow x = \{45^\circ, 135^\circ\} = \left\{\frac{\pi}{4}, \frac{3}{4}\pi\right\}$$