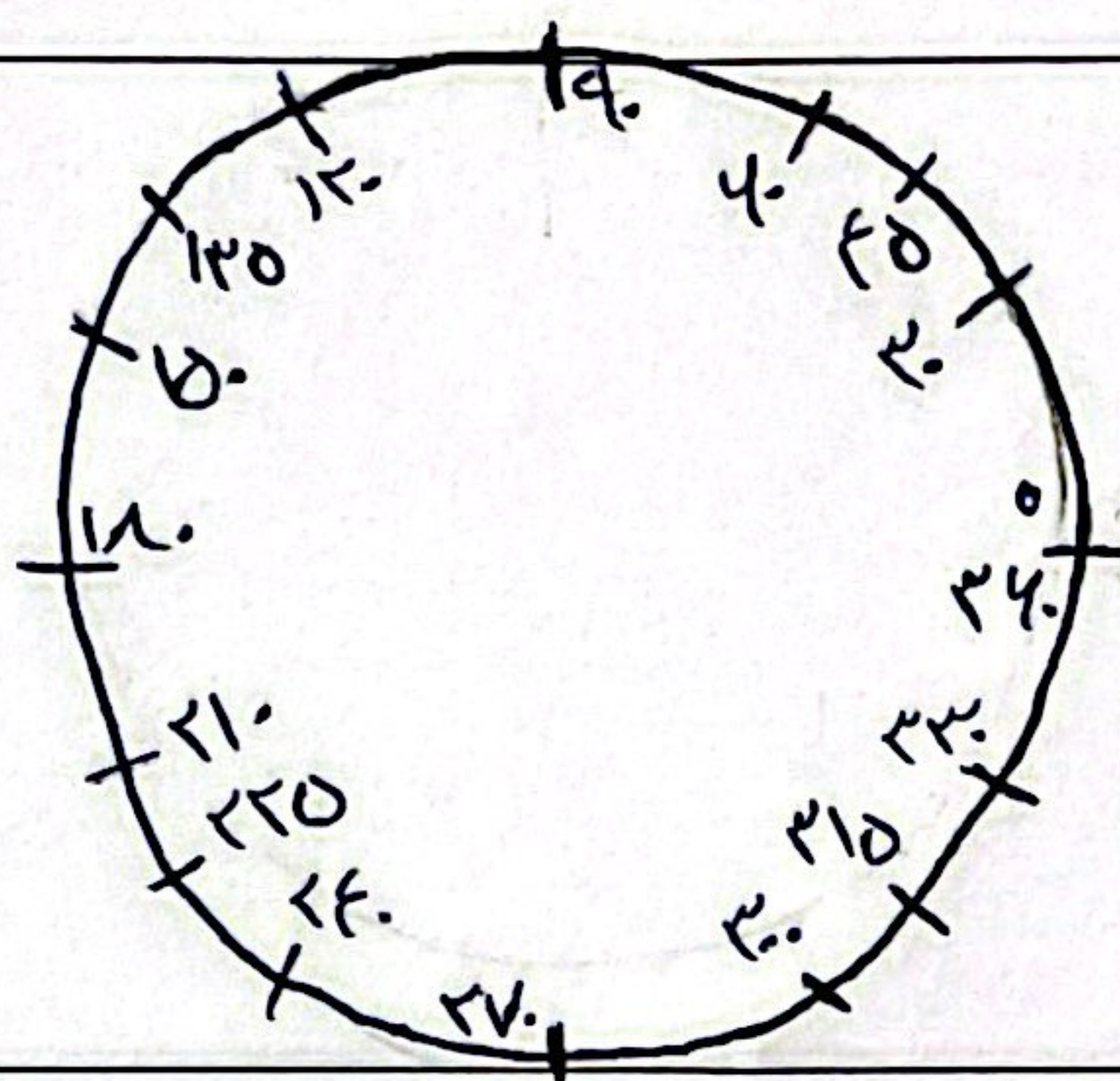
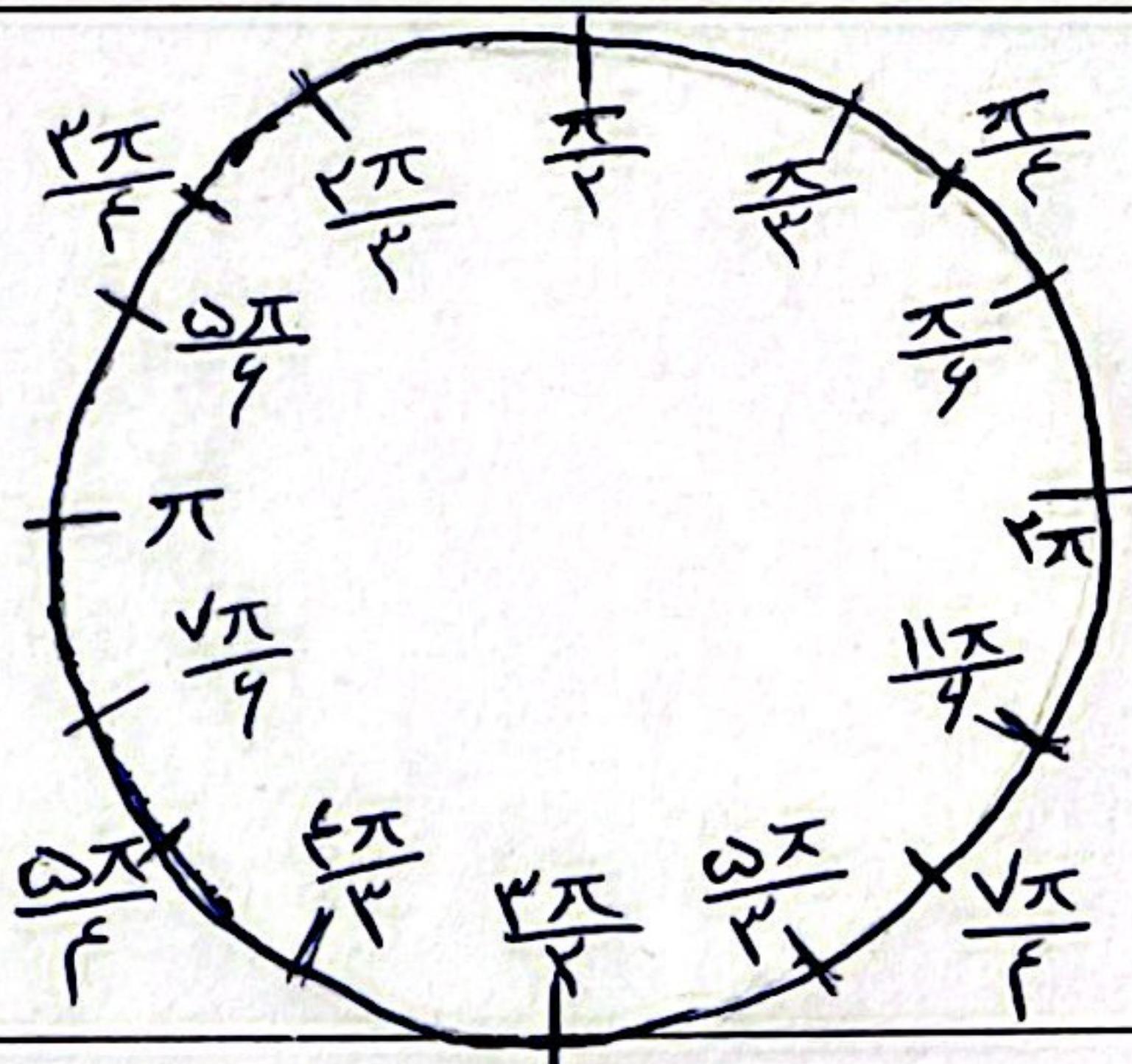


نام و نام خانوادگی

پاسخنامه تشریحی تکلیف شماره ۲..... کلاس

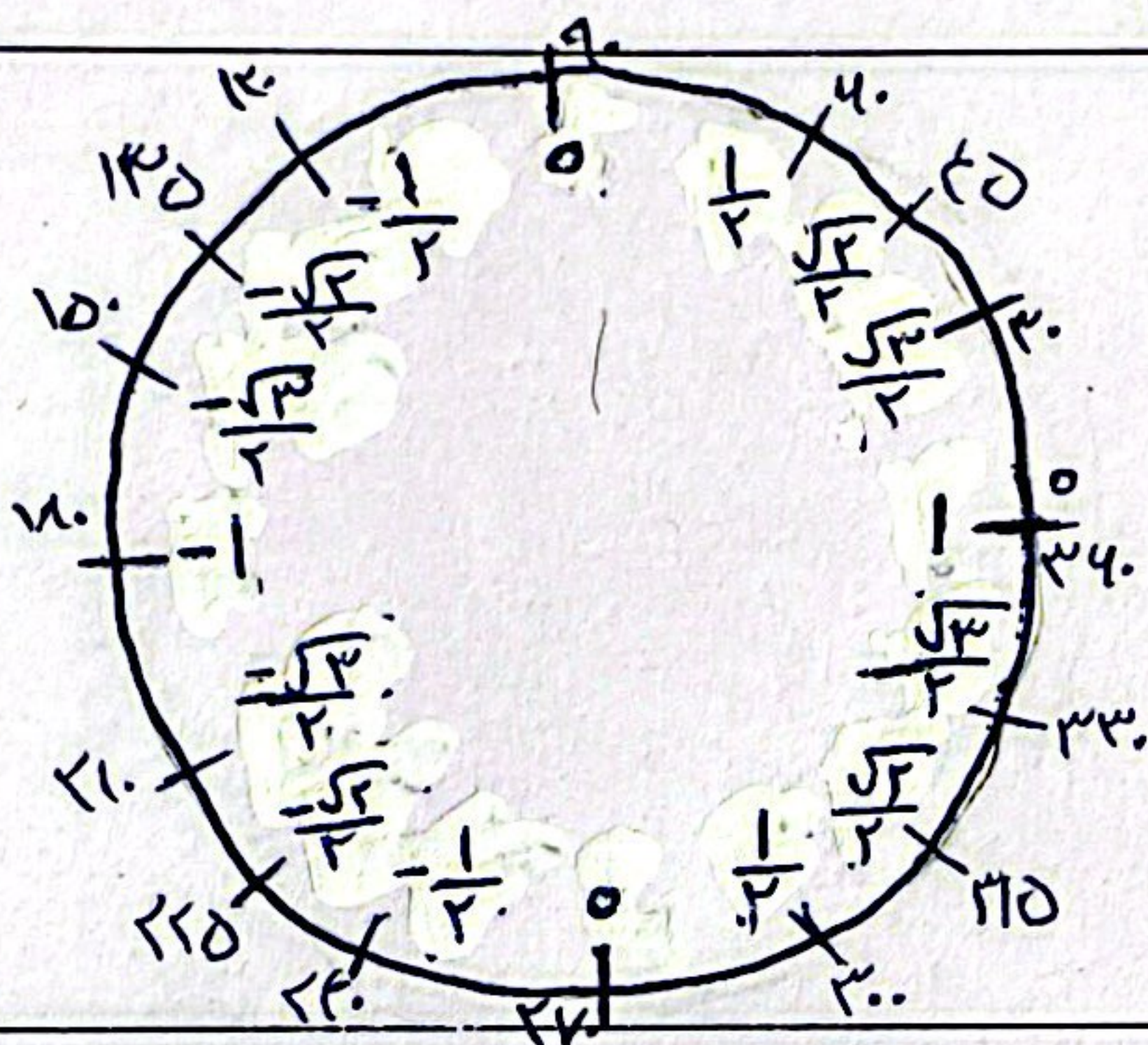


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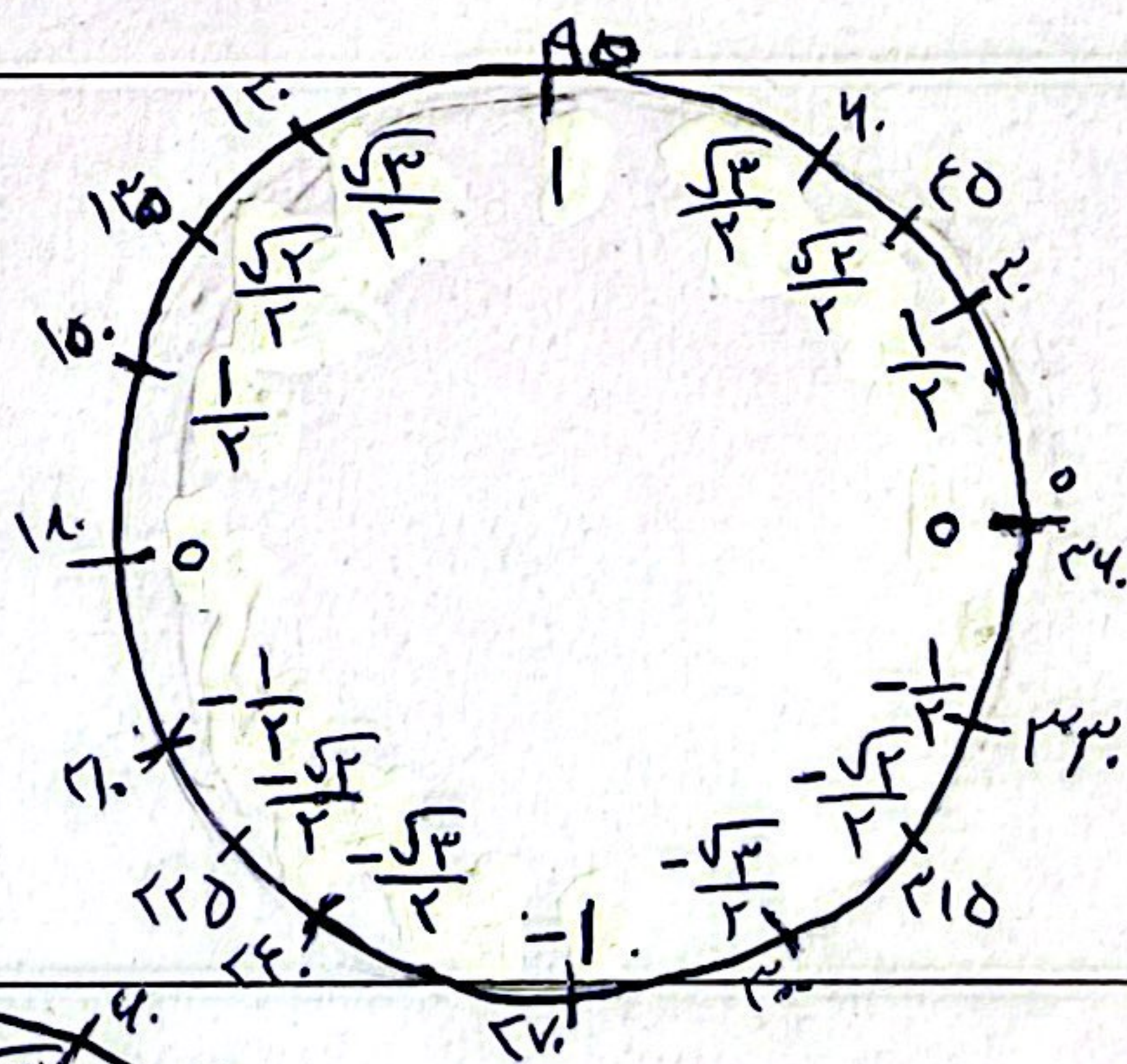
۲

$\cos \alpha$



۳

$\sin \alpha$



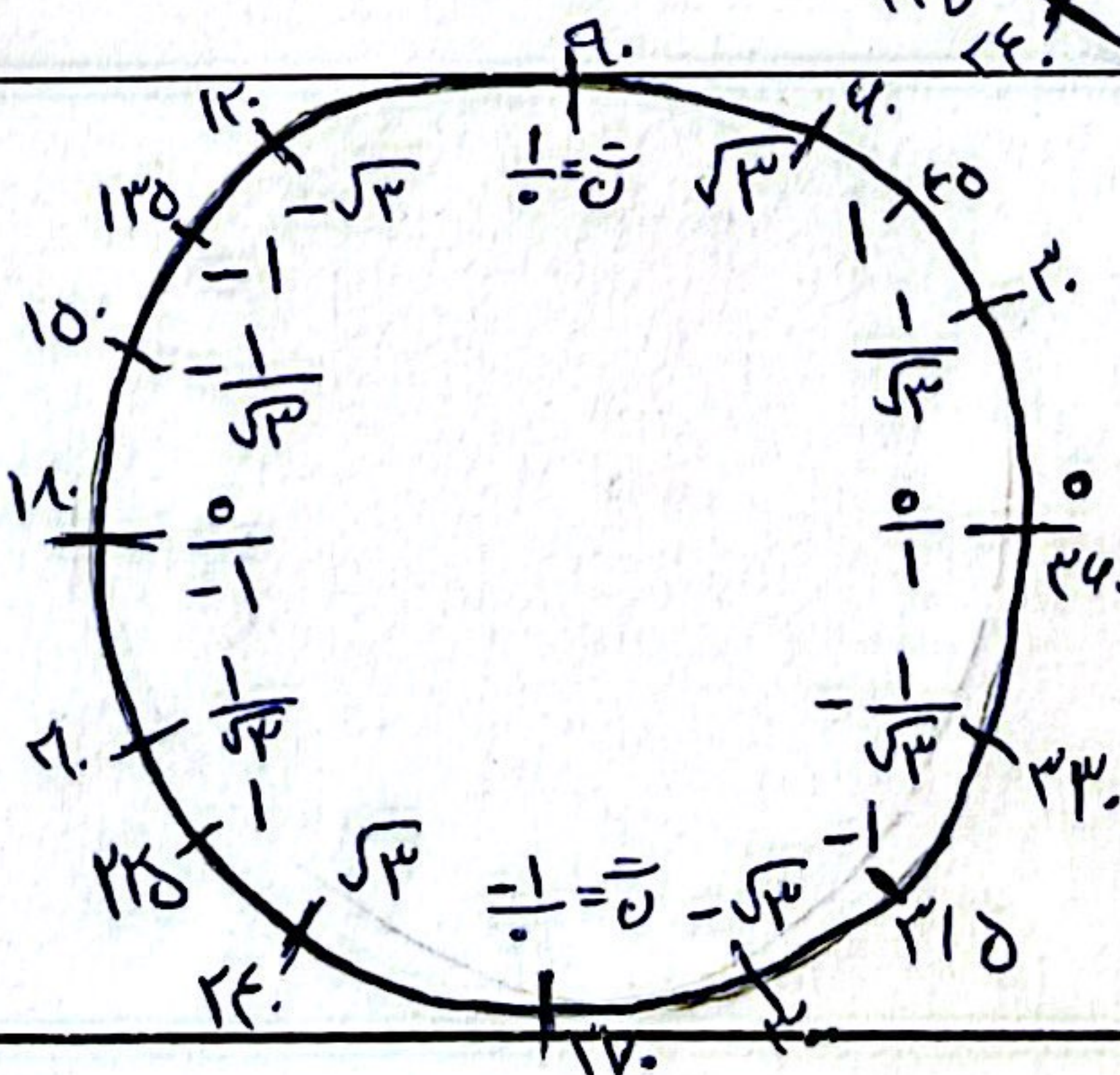
۴

$$\tan \alpha = \frac{\sin \alpha}{\cos \alpha}$$

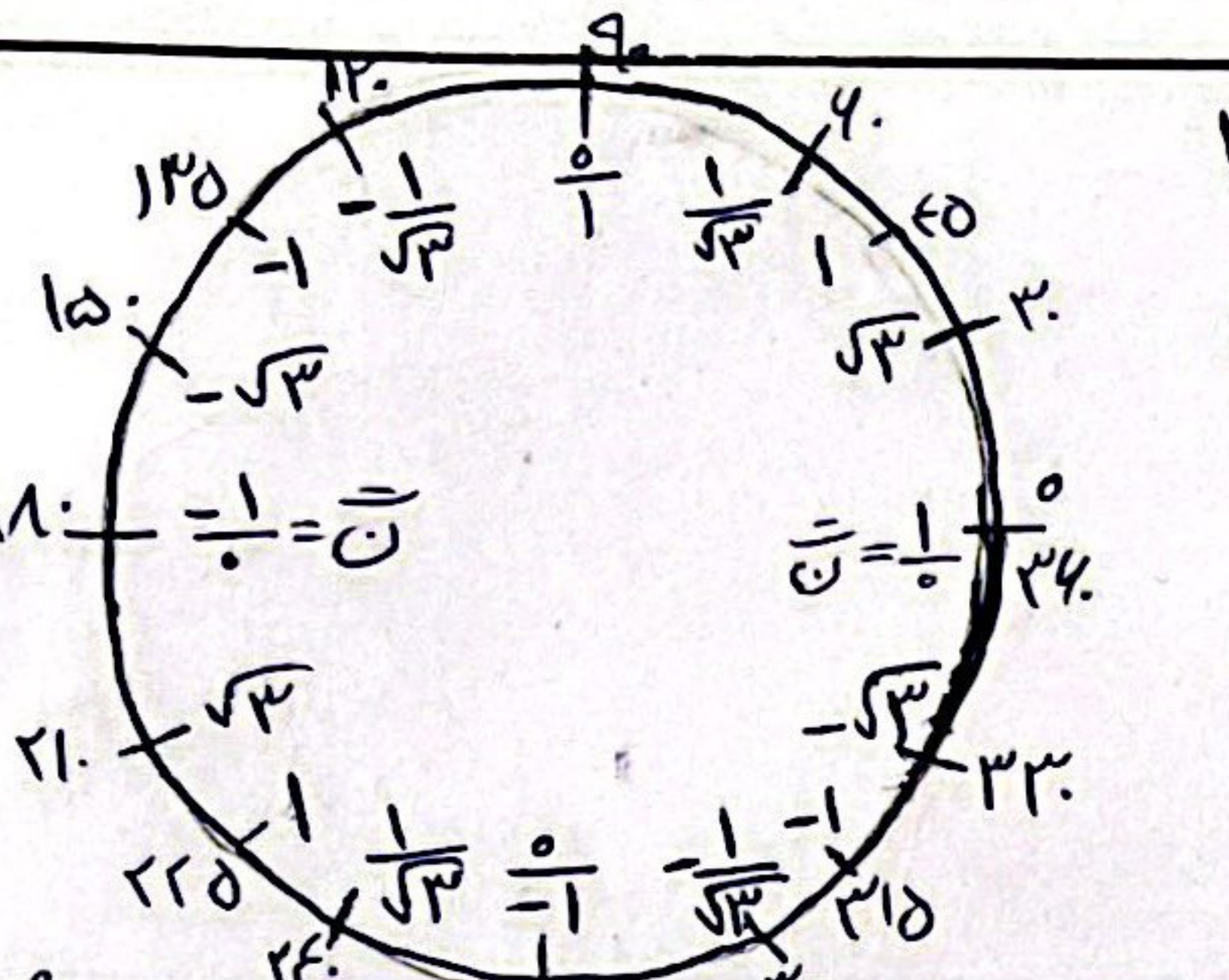
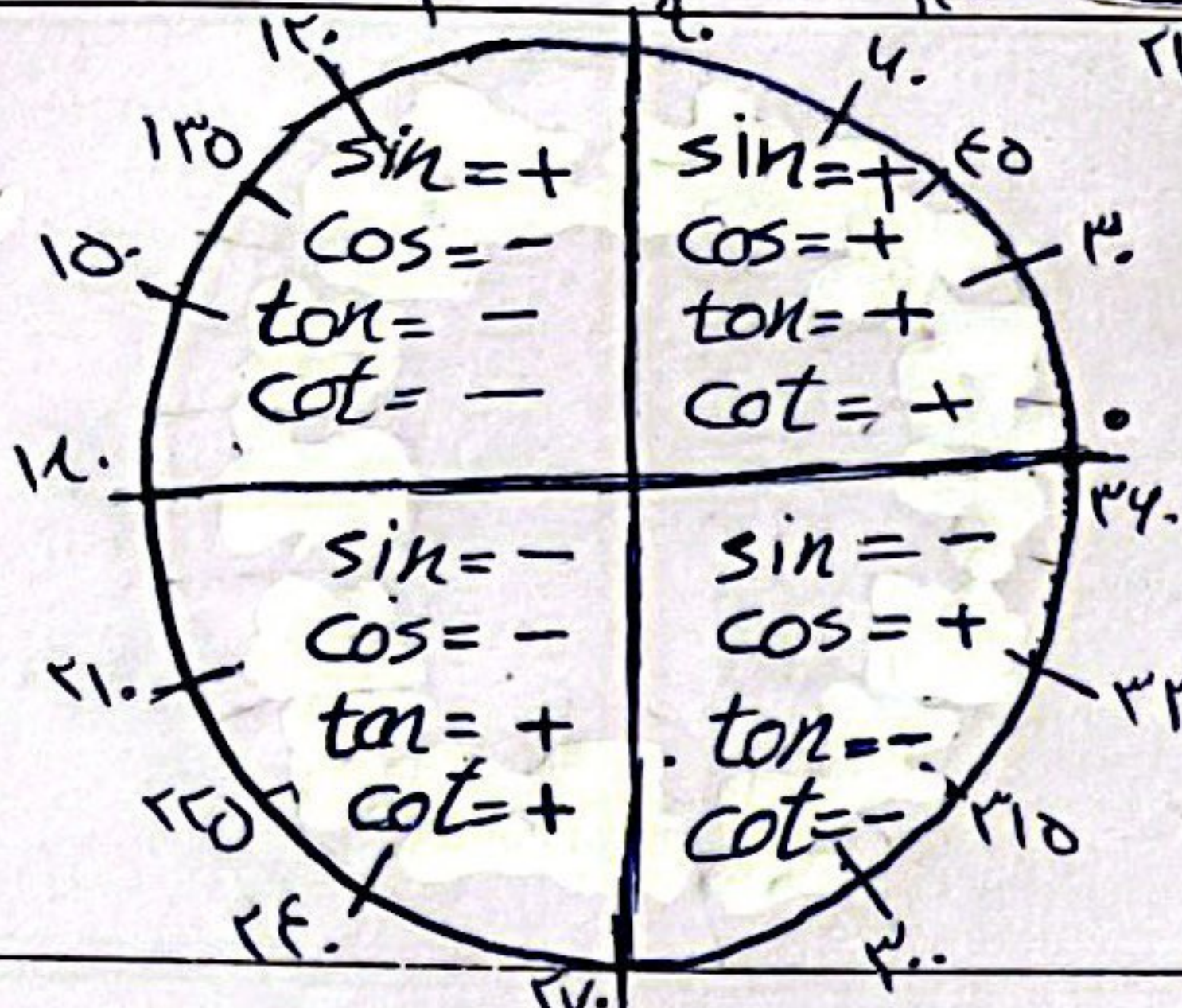
$0 = \frac{0}{1}$
 $30 = \frac{1/2}{\sqrt{3}/2}$
 $45 = \frac{1/\sqrt{2}}{1/\sqrt{2}}$
 $60 = \frac{1/2}{1/2}$
 $90 = \frac{1}{0}$
 $120 = \frac{1/2}{-1/2}$

$135 = \frac{1/\sqrt{2}}{-1/\sqrt{2}}$
 $150 = \frac{1/2}{-1/2}$
 $180 = \frac{0}{-1}$
 $210 = \frac{-1/2}{-1/2}$
 $225 = \frac{-1/\sqrt{2}}{-1/\sqrt{2}}$
 $240 = \frac{-1/2}{1/2}$

$270 = \frac{-1}{0}$
 $300 = \frac{-1/2}{1/2}$
 $315 = \frac{-1/\sqrt{2}}{1/\sqrt{2}}$
 $330 = \frac{-1/2}{\sqrt{3}/2}$
 $360 = \frac{0}{1}$



۵

$\cot \alpha = \frac{\cos \alpha}{\sin \alpha}$ $0 = \frac{1}{0} \quad 90 = \frac{0}{1}$ $45 = \frac{1}{1} \quad 135 = \frac{-1}{1}$ $60 = \frac{\sqrt{3}}{1} \quad 150 = \frac{1}{\sqrt{3}}$ $75 = \frac{2}{1} \quad 165 = \frac{1}{2}$		$180 = \frac{-1}{0} \quad 270 = \frac{0}{-1}$ $210 = \frac{-\sqrt{3}}{1} \quad 300 = \frac{1}{\sqrt{3}}$ $225 = \frac{-1}{1} \quad 315 = \frac{1}{1}$ $240 = \frac{-2}{1} \quad 330 = \frac{2}{1}$ $270 = \frac{0}{-1} \quad 360 = \frac{1}{0}$	 	$\sin 12^\circ = \frac{\sqrt{3}}{2} \quad \leftarrow \text{الف } 4^\circ$ $\cos 150^\circ = -\frac{\sqrt{3}}{2} \quad \leftarrow \text{ب } 21^\circ$ $\tan 33^\circ = -\frac{1}{\sqrt{3}} \quad \leftarrow \text{ج } 15^\circ$ $\cot 135^\circ = -1 \quad \leftarrow \text{د } 315^\circ$
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