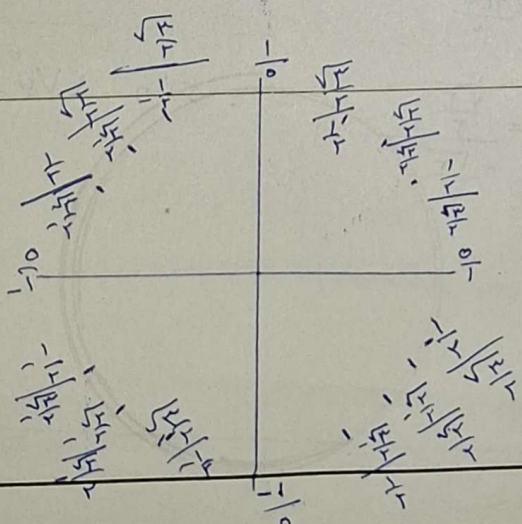
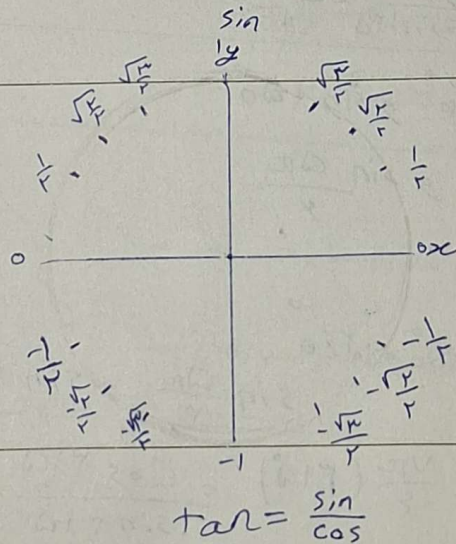
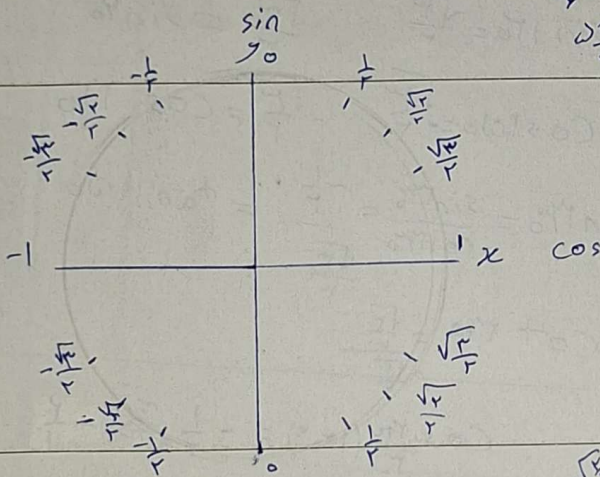
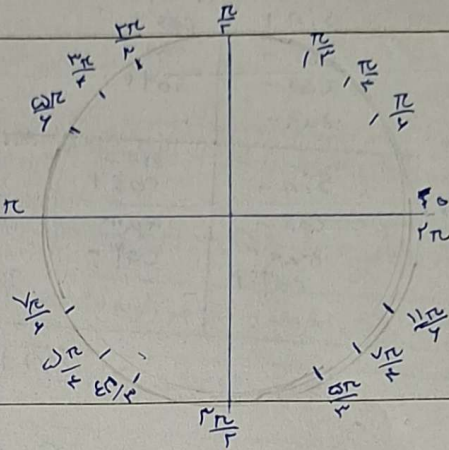
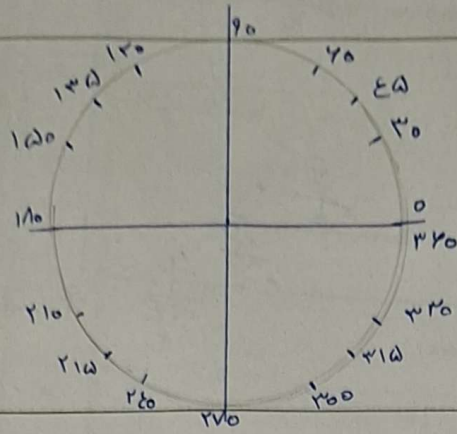
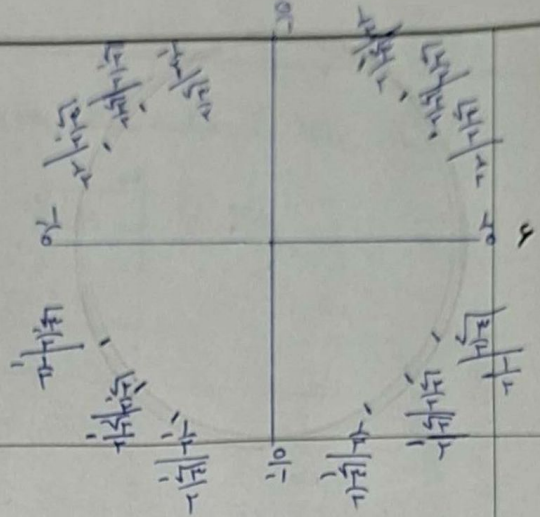


نام و نام خانوادگی: امیرعلی خامسی پاسخنامه تشریحی تکلیف شماره ۲ کلاس ۱۵۴



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

$$\cot t = \frac{\cos}{\sin}$$



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

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$$\sin 135^\circ = \frac{\sqrt{2}}{2} \quad \frac{\sqrt{2}}{2} = \sin 45^\circ \quad (\text{الف})$$

$$\cos 135^\circ = -\frac{\sqrt{2}}{2} \quad -\frac{\sqrt{2}}{2} = \cos 225^\circ \quad (\text{ب})$$

$$\tan 135^\circ = \frac{\sin 135^\circ}{\cos 135^\circ} = \frac{\frac{\sqrt{2}}{2}}{-\frac{\sqrt{2}}{2}} = -1 = \tan 315^\circ \quad (\text{ج})$$

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$$\cot 135^\circ = \frac{\cos 135^\circ}{\sin 135^\circ} = \frac{-\frac{\sqrt{2}}{2}}{\frac{\sqrt{2}}{2}} = -1 = \cot 225^\circ \quad (\text{د})$$

$$\frac{1}{\sqrt{2}} = \sin 45^\circ \text{ و } \sin 135^\circ \quad \cos \frac{3\pi}{4} (135^\circ) = -\frac{1}{\sqrt{2}} \rightarrow -\frac{1}{\sqrt{2}} \quad (\text{الف})$$

$$\cos \frac{11\pi}{4} = \frac{\sqrt{2}}{2} \rightarrow \frac{\sqrt{2}}{2} \quad (\text{ب})$$

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$$\frac{\sqrt{2}}{2} = \sin 45^\circ \text{ و } \sin 135^\circ \quad \sin \frac{5\pi}{4} \text{ و } \sin \frac{3\pi}{4}$$

$$\cot \frac{5\pi}{4} (225^\circ) = \frac{\cos 225^\circ}{\sin 225^\circ} = \frac{-\frac{\sqrt{2}}{2}}{-\frac{\sqrt{2}}{2}} = 1 = \cot 135^\circ \quad (\text{الف})$$

$$\cos 135^\circ = -\frac{\sqrt{2}}{2} \rightarrow -\frac{\sqrt{2}}{2} \quad (\text{ب})$$

$$\sin 135^\circ \text{ و } \sin 45^\circ$$

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