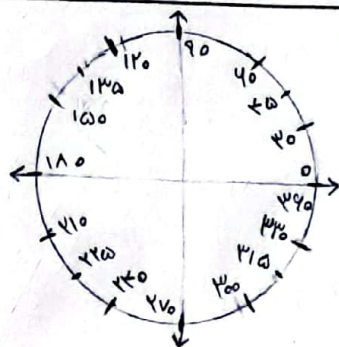
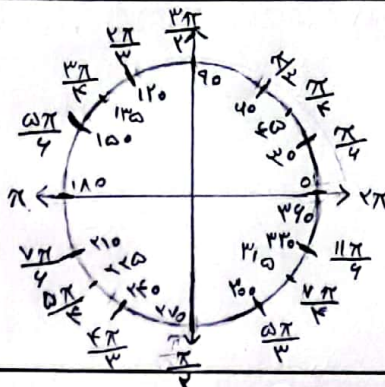


نام و نام خانوادگی: پاسخنامه تشریحی تکلیف شماره ۷ کلاس چهارم دبیرستان ۸

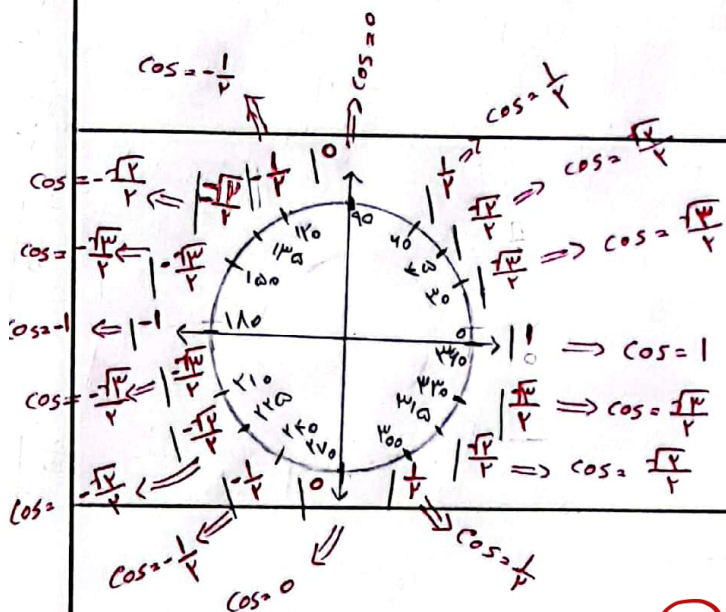


بر حسب رادیان

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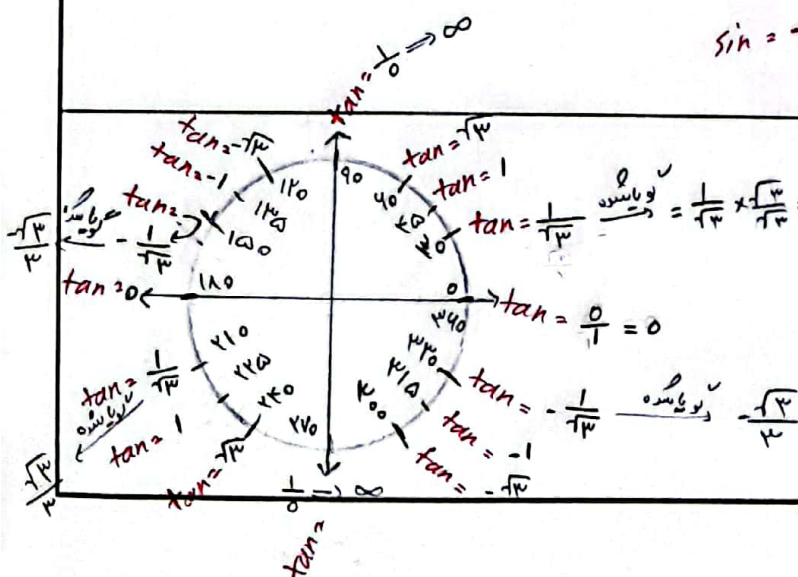
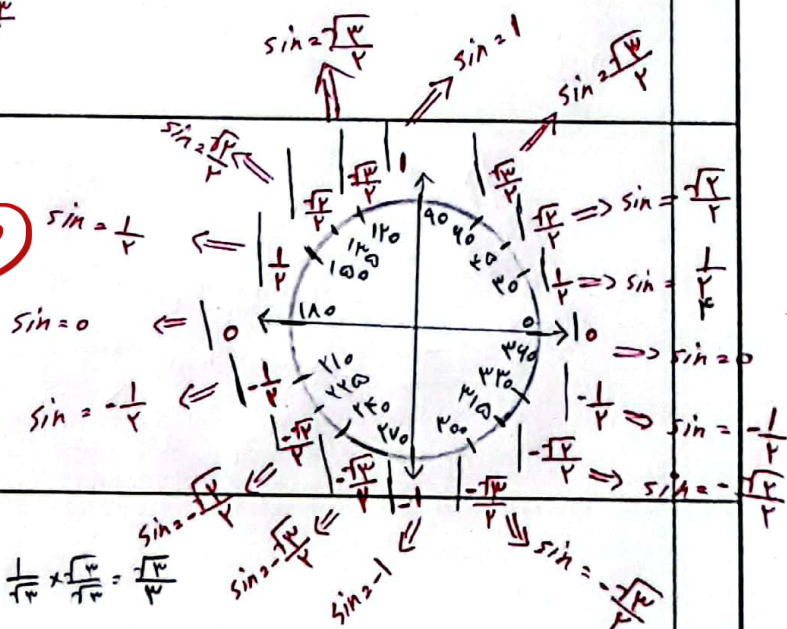


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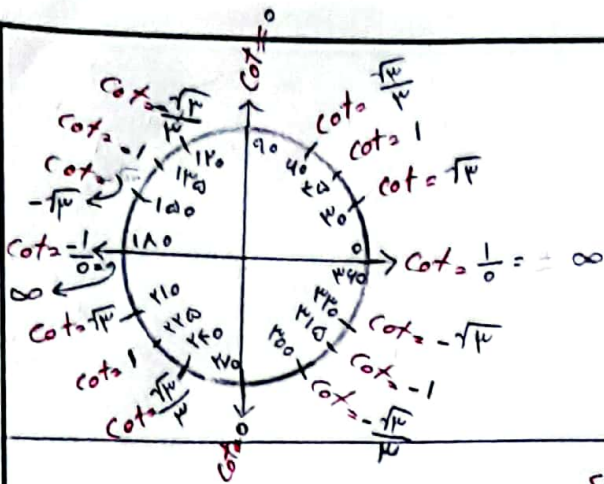
sin/cos = tangent

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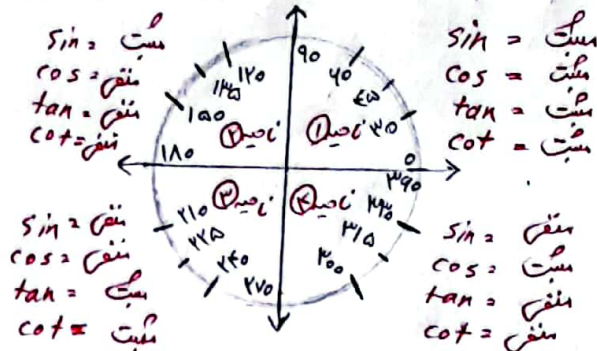
$$\frac{\cos}{\sin} = \text{تangent}$$

تangent ها که به خارج آن رادیکالی می آید
به صورت کسری به بیرون می آید

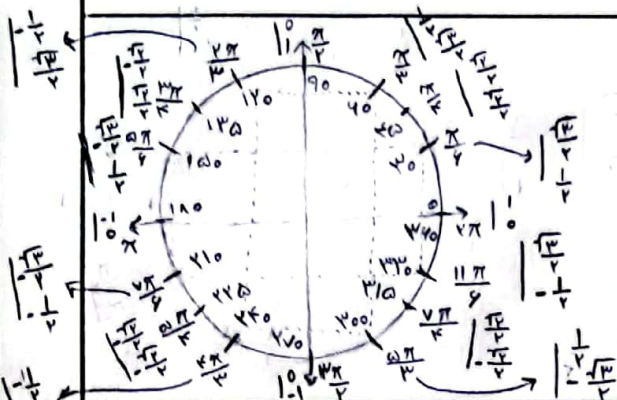
6



3



7



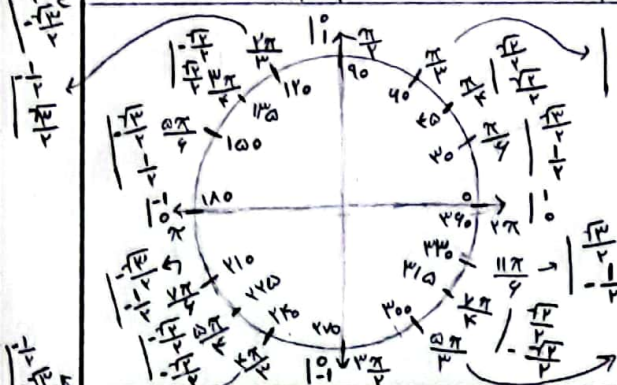
$$\sin 120^\circ = \frac{\sqrt{3}}{2} \quad \left(\begin{matrix} \text{ب} \\ 90^\circ \end{matrix} \right) \quad \sin 40^\circ = \frac{\sqrt{3}}{2}$$

$$\cos 150^\circ = -\frac{\sqrt{3}}{2} \quad \left(\begin{matrix} \text{ب} \\ 110^\circ \end{matrix} \right) \quad \cos 110^\circ = -\frac{\sqrt{3}}{2}$$

$$\tan 135^\circ = \frac{-1}{1} = -1 \quad \left(\begin{matrix} \text{ج} \\ 150^\circ \end{matrix} \right) \quad \tan 150^\circ = \frac{-1}{\sqrt{3}} = -\frac{\sqrt{3}}{3}$$

$$\cot 135^\circ = \frac{-1}{1} = -1 \quad \left(\begin{matrix} \text{د} \\ 110^\circ \end{matrix} \right) \quad \cot 110^\circ = \frac{-1}{\sqrt{3}} = -\frac{\sqrt{3}}{3}$$

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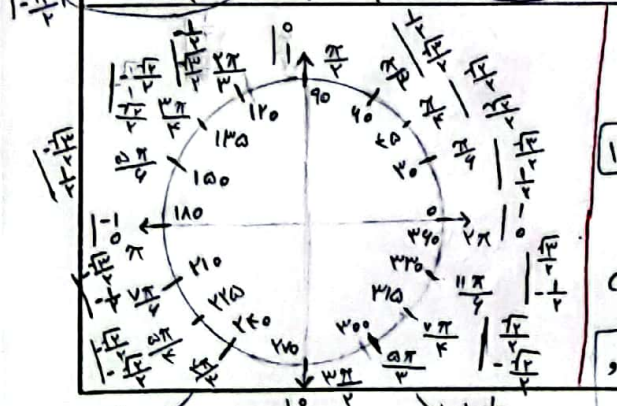
$$\cos \frac{7\pi}{4} = \frac{1}{2} \quad \left(\begin{matrix} \text{الف} \\ 110^\circ \end{matrix} \right) \quad \cos \frac{7\pi}{4} = \frac{1}{2}$$

$$\sin \frac{7\pi}{4} = -\frac{1}{2} \quad \left(\begin{matrix} \text{ب} \\ 110^\circ \end{matrix} \right) \quad \sin \frac{7\pi}{4} = -\frac{1}{2}$$

$$\cos \frac{11\pi}{4} = \frac{1}{2} \quad \left(\begin{matrix} \text{ج} \\ 110^\circ \end{matrix} \right) \quad \cos \frac{11\pi}{4} = \frac{1}{2}$$

$$\sin \frac{11\pi}{4} = -\frac{1}{2} \quad \left(\begin{matrix} \text{د} \\ 110^\circ \end{matrix} \right) \quad \sin \frac{11\pi}{4} = -\frac{1}{2}$$

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$$\cot \frac{7\pi}{4} = \frac{\cos}{\sin} = \frac{\frac{1}{2}}{-\frac{1}{2}} = -1 \quad \left(\begin{matrix} \text{الف} \\ 110^\circ \end{matrix} \right) \quad \cot \frac{7\pi}{4} = -1$$

$$\cos 150^\circ = -\frac{\sqrt{3}}{2} \quad \left(\begin{matrix} \text{ب} \\ 110^\circ \end{matrix} \right) \quad \cos 150^\circ = -\frac{\sqrt{3}}{2}$$

$$\sin 150^\circ = \frac{1}{2} \quad \left(\begin{matrix} \text{ج} \\ 110^\circ \end{matrix} \right) \quad \sin 150^\circ = \frac{1}{2}$$

$$\cot 150^\circ = \frac{\cos}{\sin} = \frac{-\frac{\sqrt{3}}{2}}{\frac{1}{2}} = -\sqrt{3} \quad \left(\begin{matrix} \text{د} \\ 110^\circ \end{matrix} \right) \quad \cot 150^\circ = -\sqrt{3}$$

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