نام و نام خانوادگی ماهان بیست‌الی پاسخنامه تشریحی تکلیف شماره ۲ کلاس دهم بسر A

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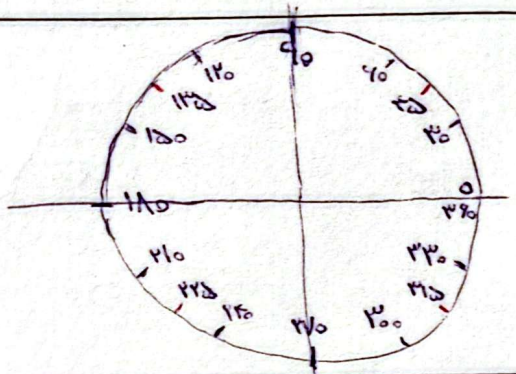


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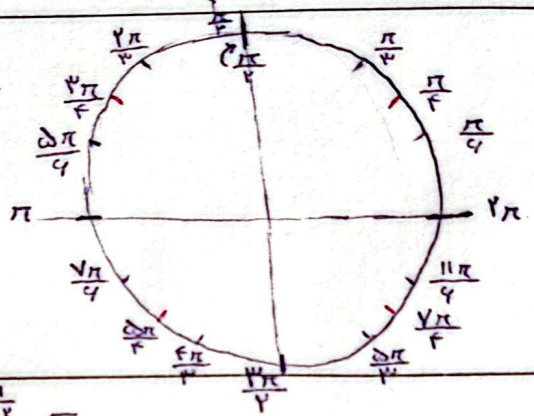


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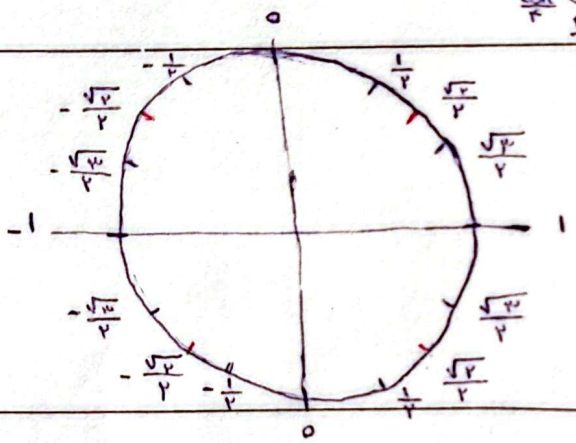


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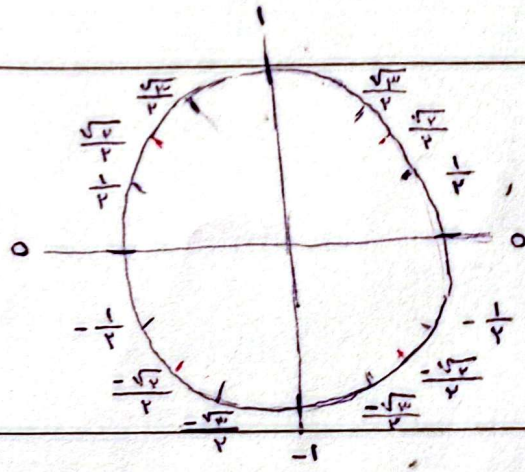


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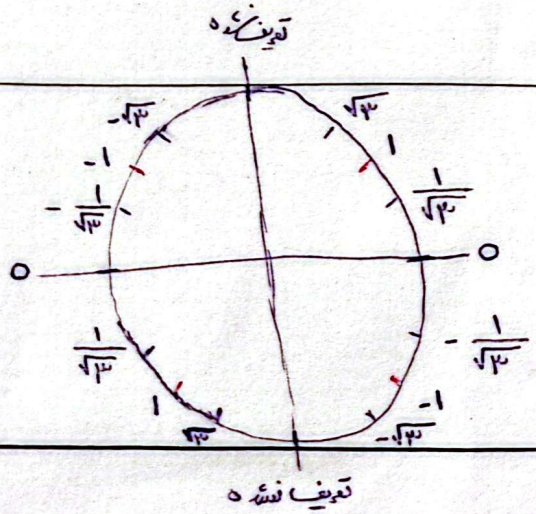
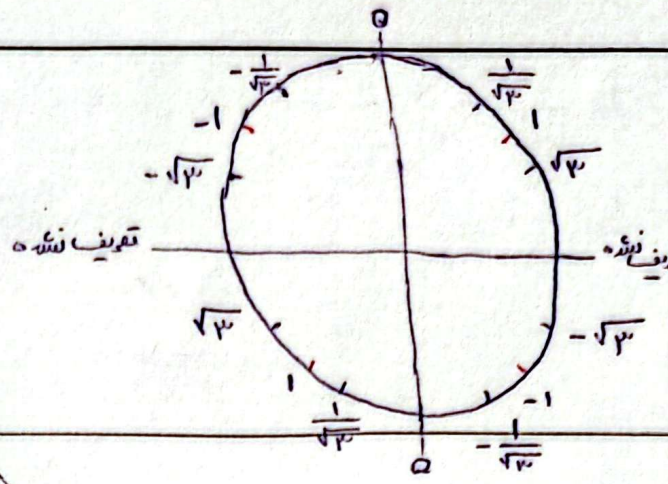



$$\tan = \frac{\sin}{\cos}$$

۶

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

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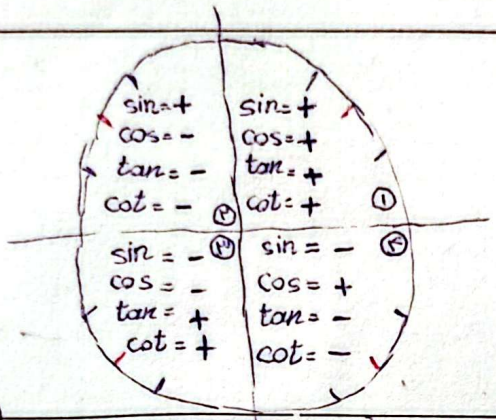



۸

الف) $90^\circ$

ب) $210^\circ$

ج) $135^\circ$

د) $315^\circ$

حفظیات

$\sin 120^\circ = \frac{\sqrt{3}}{2}$

$\sin 90^\circ = \frac{\sqrt{4}}{2}$

$\cos 150^\circ = -\frac{\sqrt{3}}{2}$

$\cos 210^\circ = -\frac{\sqrt{3}}{2}$

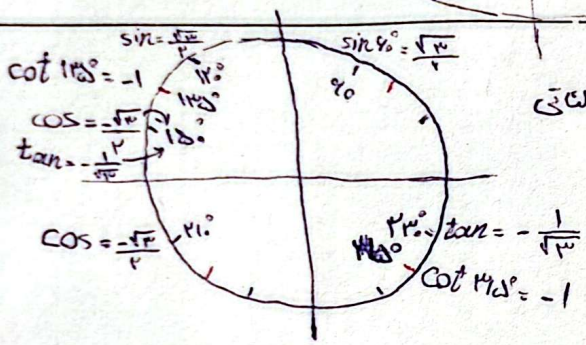
$\tan 330^\circ = -\frac{1}{\sqrt{3}}$

$\tan 150^\circ = -\frac{1}{\sqrt{3}}$

$\cot 135^\circ = -1$

$\cot 315^\circ = -1$

دایره مثلثاتی




۹

الف) $\frac{5\pi}{6}, \frac{\pi}{6}$

$\cos \frac{2\pi}{3} = \cos 120^\circ = -\frac{1}{2}$ تشبیه $\Rightarrow \frac{1}{2}$

$\sin 30^\circ = \frac{1}{2} \Rightarrow \frac{\pi}{6}$

$\sin 150^\circ = \frac{1}{2} \Rightarrow \frac{5\pi}{6}$

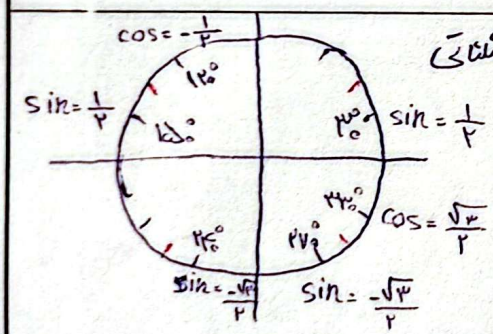
ب) $\frac{7\pi}{4}, \frac{4\pi}{3}$

$\cos \frac{11\pi}{4} = \cos 315^\circ = \frac{\sqrt{2}}{2}$ تشبیه $\frac{-\sqrt{2}}{2}$

$\sin 240^\circ = -\frac{\sqrt{3}}{2} \Rightarrow \frac{4\pi}{3}$

$\sin 300^\circ = -\frac{\sqrt{3}}{2} \Rightarrow \frac{5\pi}{3}$

دایره مثلثاتی

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الف) $180^\circ$

$\cot \frac{7\pi}{4} = \cot 315^\circ = -1$

$\cos 180^\circ = -1$

ب) $120^\circ, 90^\circ$

$\cos 150^\circ = -\frac{\sqrt{3}}{2}$ تشبیه $\frac{\sqrt{3}}{2}$

$\sin 90^\circ = \frac{\sqrt{4}}{2}$

$\sin 120^\circ = \frac{\sqrt{3}}{2}$