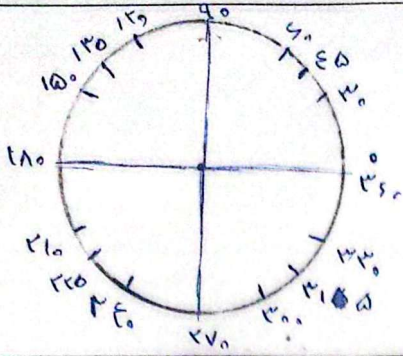


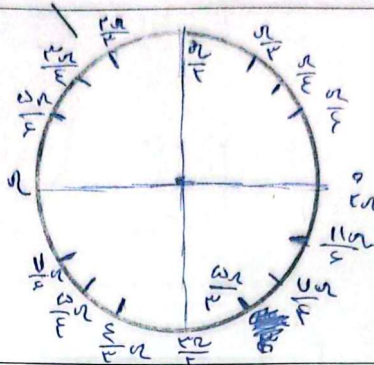
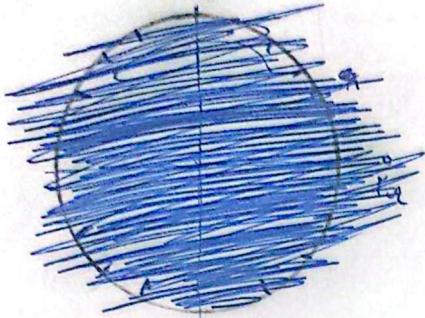
نام و نام خانوادگی موبین زاده پاسخنامه تشریحی تکلیف شماره ۲ کلاس دوازده (۱۰)

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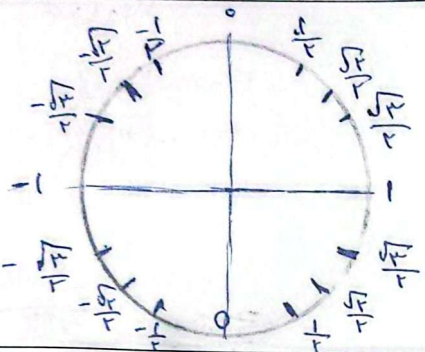
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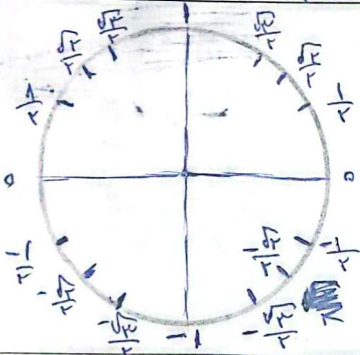
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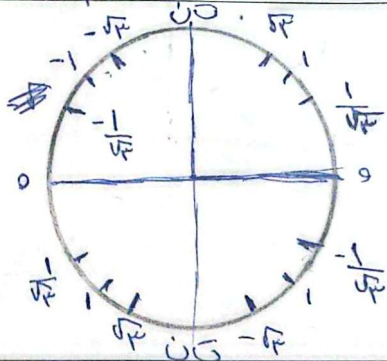
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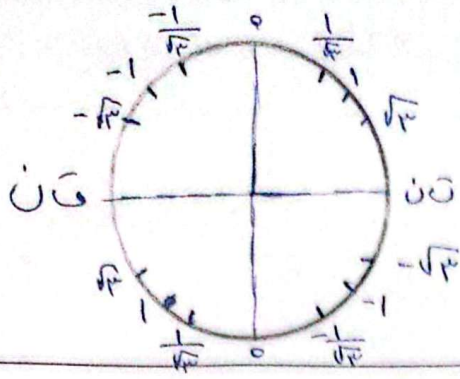


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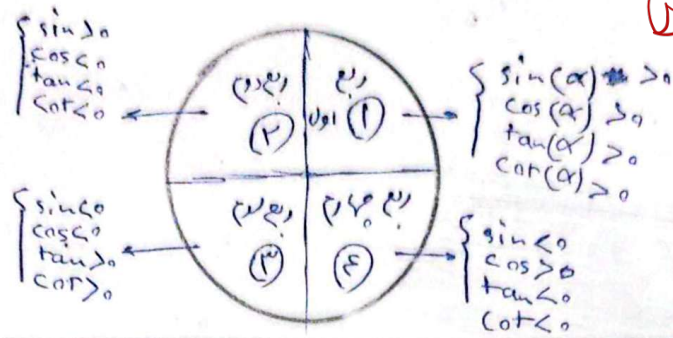


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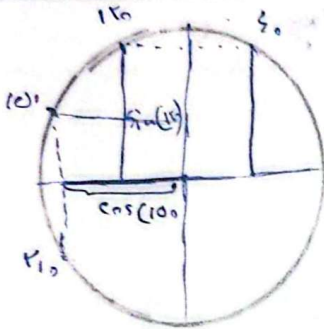
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6



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7



الف) 90°

ب) 110°

ج) 150°

د) 130°

8

الف) $\cos \frac{2\pi}{6} = \cos \left(\frac{120^\circ}{180^\circ} \right) = \cos(120^\circ) = -\frac{1}{2} \rightarrow -(-\frac{1}{2}) = +\frac{1}{2} = \frac{\sin(30^\circ)}{\sin(10^\circ)} = \frac{\frac{1}{2}}{\frac{\sin(10^\circ)}{2}} = \frac{1}{\sin(10^\circ)}$

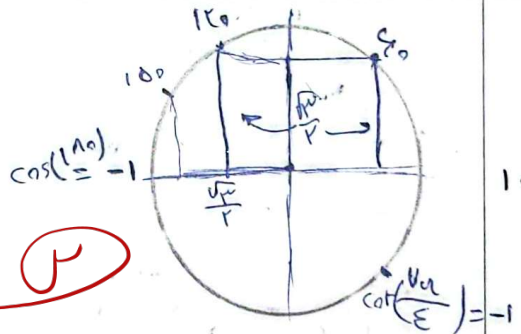
ب) $\cos \frac{11\pi}{6} = \cos \left(\frac{330^\circ}{180^\circ} \right) = \cos(330^\circ) = \frac{\sqrt{3}}{2} \rightarrow \frac{\sin(30^\circ)}{\sin(110^\circ)} = \frac{\frac{1}{2}}{\frac{\sqrt{3}}{2}} = \frac{1}{\sqrt{3}}$

2

9

الف) $\cot \left(\frac{4\pi}{6} \right) = \cot(120^\circ) = -\frac{1}{\tan(120^\circ)} = -\frac{1}{\sqrt{3}} = -\frac{\sqrt{3}}{3}$

ب) $-\cos(10^\circ) = -\left(\frac{\sqrt{3}}{2} \right) = -\frac{\sqrt{3}}{2}$



3

10