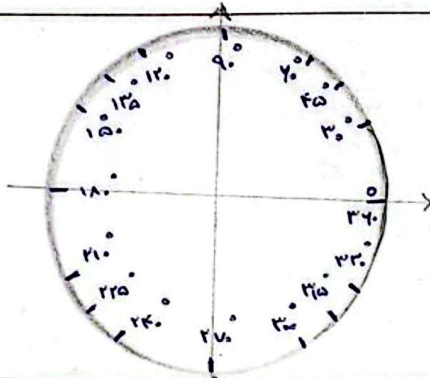


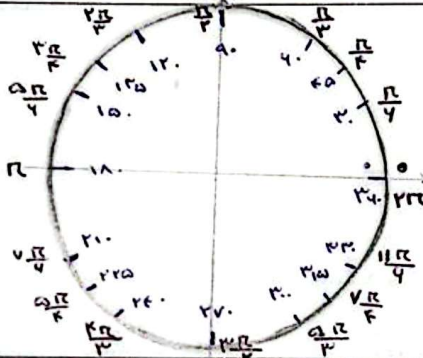
نام و نام خانوادگی فایده اجزای پاسخنمه تشریحی تکلیف شماره ۲ کلاس دهم فصل A

زوايا معروف
بر حسب درج



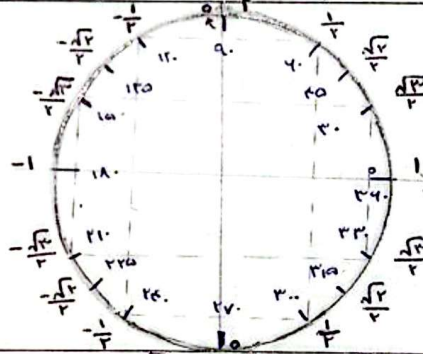
۱

زوايا معروف
بر حسب راديان



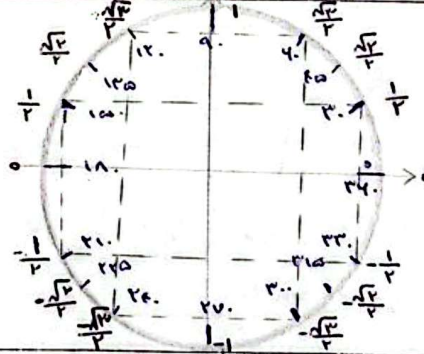
۲

کسینوس زوايا معروف



۳

سینوس زوايا معروف

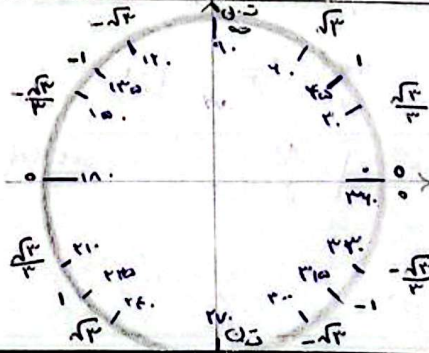


۴

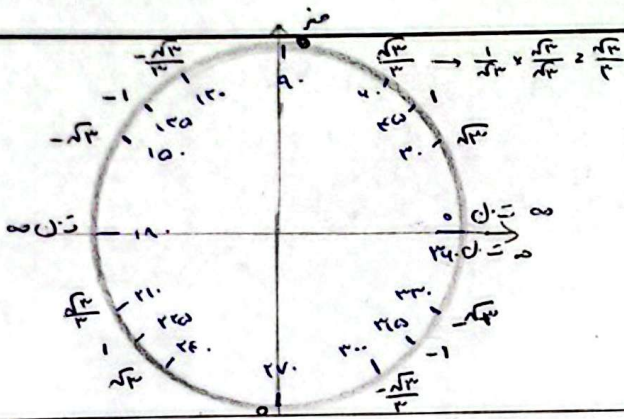
تangent زوايا معروف

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

$$3^\circ = \frac{1}{\frac{1}{\frac{1}{\sqrt{3}}}} = \frac{1}{\frac{1}{\sqrt{3}}} \times \frac{\sqrt{3}}{\sqrt{3}} = \frac{\sqrt{3}}{1}$$



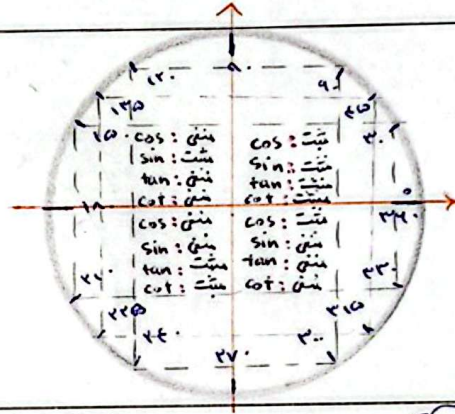
۵



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



6



7

الف) $\sin x = \sin 15^\circ$ $\sin 15^\circ = \frac{\sqrt{2}}{4}$ $\sin 45^\circ = \frac{\sqrt{2}}{2}$ $x = 45^\circ$

ب) $\cos x = \cos 15^\circ$ $\cos 15^\circ = \frac{\sqrt{3}}{2}$ $\cos 30^\circ = \frac{\sqrt{3}}{2}$ $x = 30^\circ$

ج) $\tan a = \tan 15^\circ$ $\tan 15^\circ = \frac{1}{\sqrt{3}}$ $\tan 30^\circ = \frac{1}{\sqrt{3}}$ $a = 30^\circ$

د) $\cot b = \cot 15^\circ$ $\cot 15^\circ = \sqrt{3}$ $\cot 30^\circ = \sqrt{3}$ $b = 30^\circ$

الف) $\cos \frac{\pi}{4} = \frac{\sqrt{2}}{2}$ $\cos \frac{\pi}{4} = \frac{\sqrt{2}}{2}$ $\frac{\pi}{4} = 45^\circ$

جوابي $\rightarrow -\cos \frac{\pi}{4} = -\sin \frac{\pi}{4}$ $\sin \frac{\pi}{4} = \frac{\sqrt{2}}{2}$

ب) $-\cos \frac{11\pi}{4} = -\cos \frac{3\pi}{4} = -\frac{\sqrt{2}}{2}$ $\frac{11\pi}{4} = 315^\circ$

ج) $\sin \frac{11\pi}{4} = \sin \frac{3\pi}{4} = \frac{\sqrt{2}}{2}$ $\frac{11\pi}{4} = 315^\circ$

الف) $\cot \frac{\sqrt{2}}{2} = \cot 45^\circ$ $\cot 45^\circ = 1$ $\frac{\sqrt{2}}{2} = 45^\circ$

ب) $\cot \frac{\sqrt{2}}{2} = \cot 135^\circ$ $\cot 135^\circ = -1$ $\frac{\sqrt{2}}{2} = 135^\circ$

ج) $\cos 15^\circ = \frac{\sqrt{3}}{2}$ $\cos 30^\circ = \frac{\sqrt{3}}{2}$ $15^\circ = 30^\circ$

د) $\sin 15^\circ = \frac{1}{2}$ $\sin 30^\circ = \frac{1}{2}$ $15^\circ = 30^\circ$