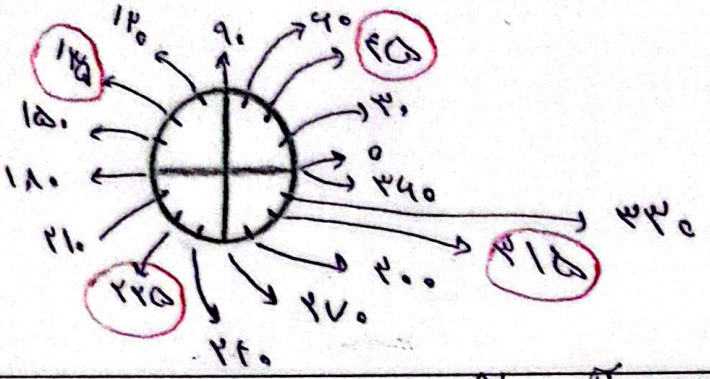
نام و نام خانوادگی ..... پاسخنامه تشریحی تکلیف شماره ۲ ..... کلاس .....

۱



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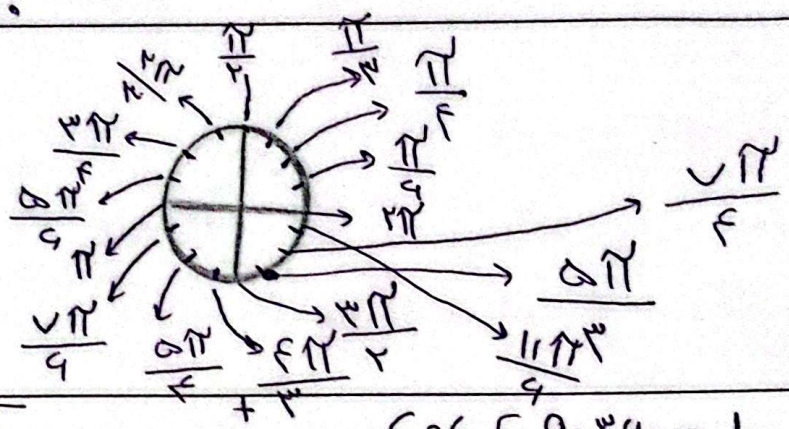


۳

Cos

$135° = -\frac{\sqrt{2}}{2}$

$150° = -\frac{\sqrt{3}}{2}$

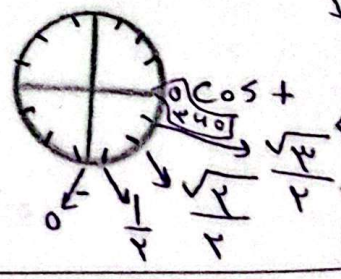
$180° = -1$

$210° = -\frac{\sqrt{3}}{2}$

$225° = -\frac{\sqrt{2}}{2}$

$315° = \frac{\sqrt{2}}{2}$

Sin



Cos

$0, 360° = 1$

$30° = \frac{\sqrt{3}}{2}$

$45° = \frac{\sqrt{2}}{2}$

$90° = \frac{1}{2}$

$270, 90° = 0$

$120° = -\frac{1}{2}$

۴

Sin

$135° = \frac{\sqrt{2}}{2}$

$150° = \frac{1}{2}$

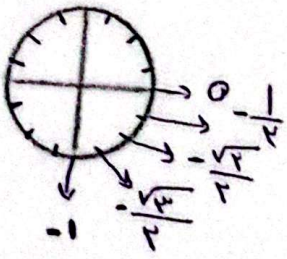
$180° = 0$

$210° = -\frac{1}{2}$

$225° = -\frac{\sqrt{2}}{2}$

$240° = -\frac{\sqrt{3}}{2}$

Sin



$0, 360° = 0$

$30° = \frac{1}{2}$

$45° = \frac{\sqrt{2}}{2}$

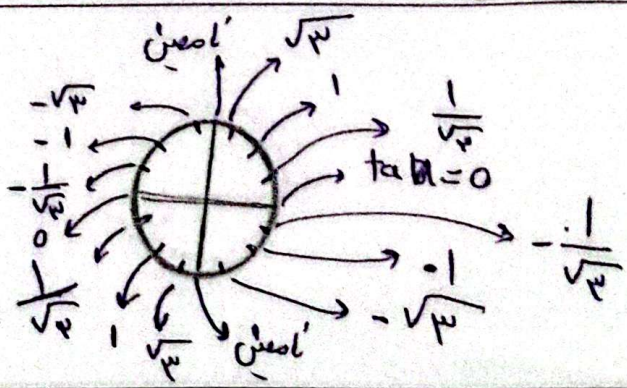
$90° = \frac{\sqrt{3}}{2}$

$90° = 1$

$120° = \frac{\sqrt{3}}{2}$

۵

$\tan\theta =$



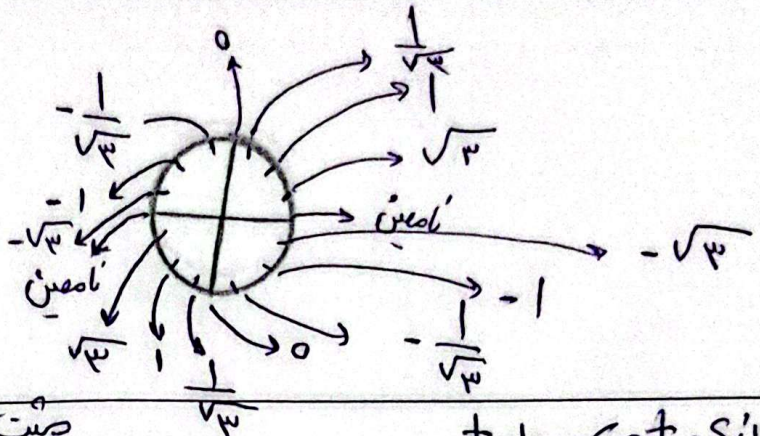
$\tan\theta = 0$

$-\frac{1}{\sqrt{3}}$

$-\sqrt{3}$

٦

$\cot\varphi =$



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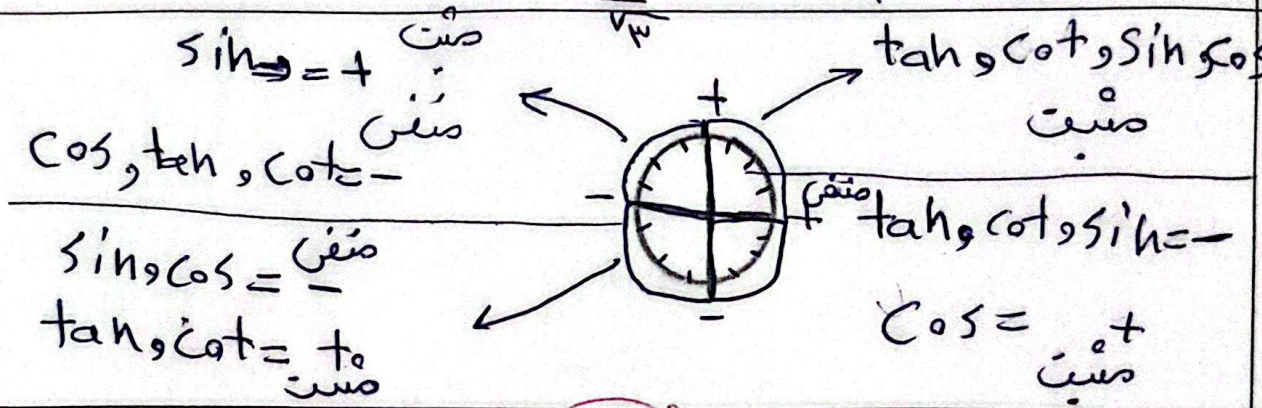

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(الف) $\sin\Rightarrow 120^\circ = -\frac{1}{2} \rightarrow 240^\circ = -\frac{1}{2}$

(ب) $\cos\Rightarrow 150^\circ = -\frac{\sqrt{3}}{2} \rightarrow 210^\circ = -\frac{\sqrt{3}}{2}$

(ج) $\tan\varphi \Rightarrow 330^\circ = -\frac{1}{\sqrt{3}} \rightarrow 150^\circ = -\frac{1}{\sqrt{3}}$

(د) $\cot\varphi \Rightarrow 135^\circ = -1 \Rightarrow 315^\circ = -1$

٩

(الف) $\frac{2\pi}{3} = \cos \Rightarrow -\frac{1}{2}$ مرفوض $= \frac{1}{2} = 30^\circ = \frac{\pi}{6}$

(ب) $\frac{11\pi}{6} = \cos \Rightarrow \frac{\sqrt{3}}{2} = -\frac{\sqrt{3}}{2} = 240^\circ = \frac{4\pi}{3}$

١٠

(الف) $\cot\varphi = \frac{\sqrt{7}}{4} = \cos$

$\rightarrow 1 = 0, 360^\circ$

(ب) $\cos\varphi = 150^\circ \Rightarrow -\frac{\sqrt{3}}{2} \neq \frac{\sqrt{3}}{2} = 60^\circ$