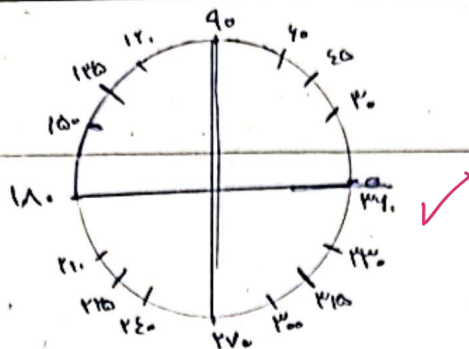
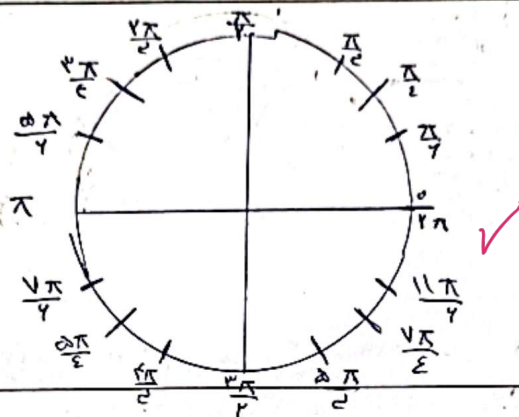


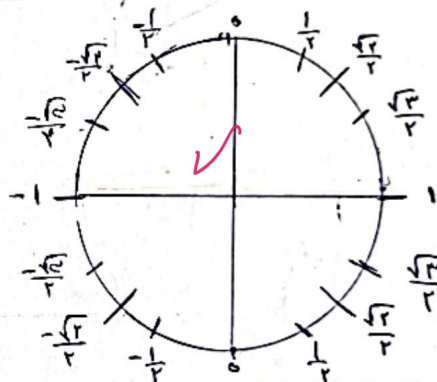
نام و نام خانوادگی کلاس شماره ۲۰
 پاسخنانه تشریحی تکلیف شماره ۲۰
 آفرین مکتب نویسی!

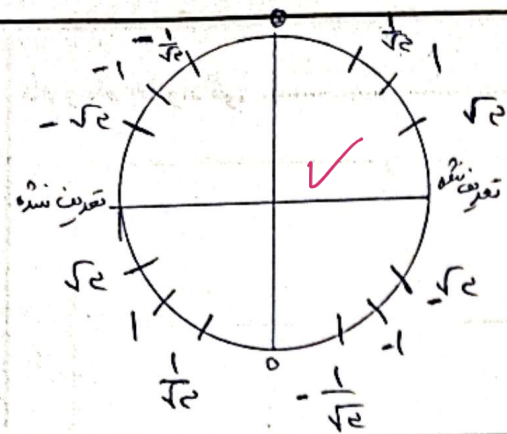


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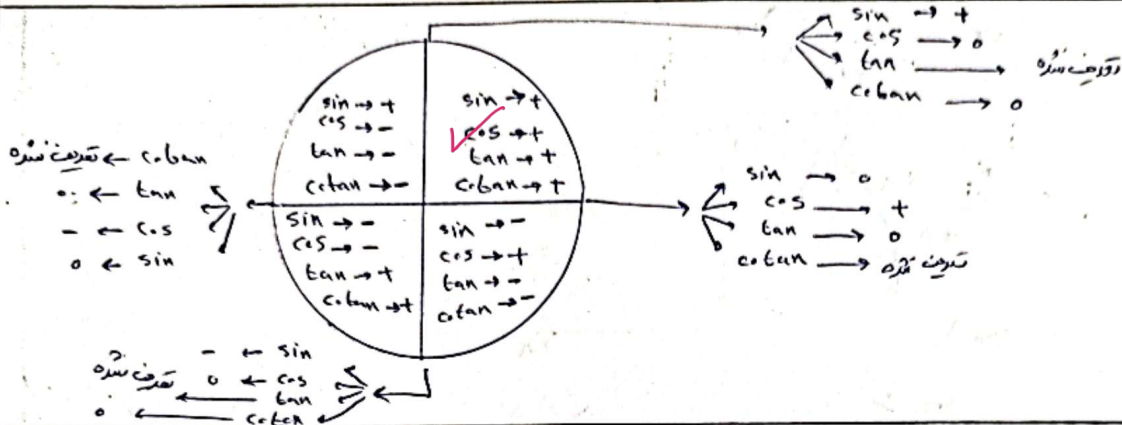


$$\cot \alpha = \frac{\cos}{\sin}$$

$$\frac{\frac{\sqrt{2}}{2}}{\frac{1}{2}} = \sqrt{2}$$

$$\frac{1}{\frac{1}{\sqrt{2}}} = \sqrt{2}$$

$$\frac{\frac{\sqrt{2}}{2}}{\frac{\sqrt{2}}{2}} = 1$$



$$120^\circ \rightarrow \text{y} \rightarrow \left| -\frac{1}{2} \right| \Rightarrow \sin = \frac{\sqrt{3}}{2} \rightarrow \sin 40^\circ = \frac{\sqrt{3}}{2}$$

$$150^\circ \rightarrow \text{y} \rightarrow \left| -\frac{\sqrt{3}}{2} \right| \Rightarrow \cos = -\frac{\sqrt{3}}{2} \rightarrow \cos 110^\circ = -\frac{\sqrt{3}}{2}$$

$$330^\circ \rightarrow \text{y} \rightarrow \left| \frac{\sqrt{3}}{2} \right| \Rightarrow \tan = \frac{\sin}{\cos} = \frac{-\frac{1}{2}}{\frac{\sqrt{3}}{2}} = -\frac{1}{\sqrt{3}} \rightarrow \tan 10^\circ = -\frac{1}{\sqrt{3}}$$

$$135^\circ \rightarrow \left| \frac{\sqrt{2}}{2} \right| \Rightarrow \cot \alpha = \frac{\cos}{\sin} = \frac{-\frac{\sqrt{2}}{2}}{\frac{\sqrt{2}}{2}} = -1 \rightarrow \cot \alpha = -1$$

$$\frac{2\pi}{2} \rightarrow 120^\circ \quad 120^\circ \left| -\frac{1}{2} \right| \Rightarrow \cos 120^\circ = -\frac{1}{2} \rightarrow -(-\frac{1}{2}) = \frac{1}{2} = \sin 10^\circ$$

$$\frac{11\pi}{4} \rightarrow 330^\circ \quad 330^\circ \left| \frac{\sqrt{3}}{2} \right| \Rightarrow \cos 330^\circ = \frac{\sqrt{3}}{2} \rightarrow -(\frac{\sqrt{3}}{2}) = \sin 120^\circ$$

$$\frac{4\pi}{2} = 315^\circ \quad 315^\circ \left| \frac{\sqrt{2}}{2} \right| \Rightarrow \cot \alpha = \frac{\cos}{\sin} = -1 = \cos 110^\circ$$

$$150^\circ \rightarrow \text{y} \rightarrow \left| -\frac{\sqrt{2}}{2} \right| \Rightarrow \cos = -\frac{\sqrt{2}}{2} \rightarrow -(\frac{\sqrt{2}}{2}) = \sin 40^\circ$$