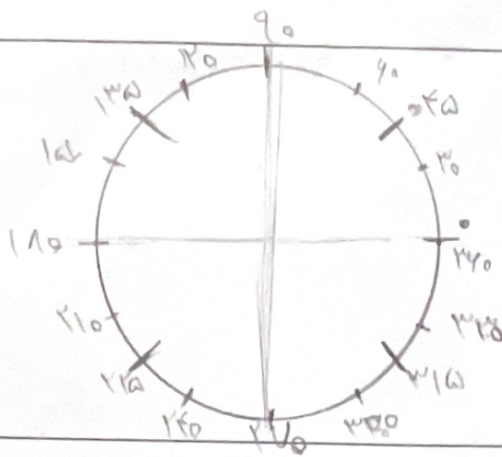
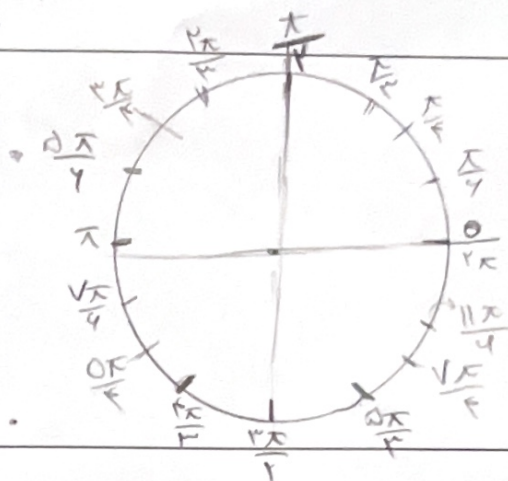
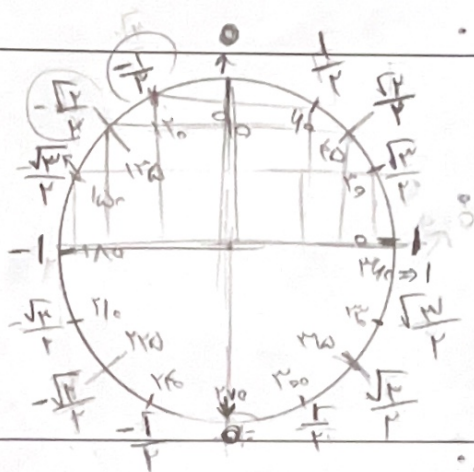




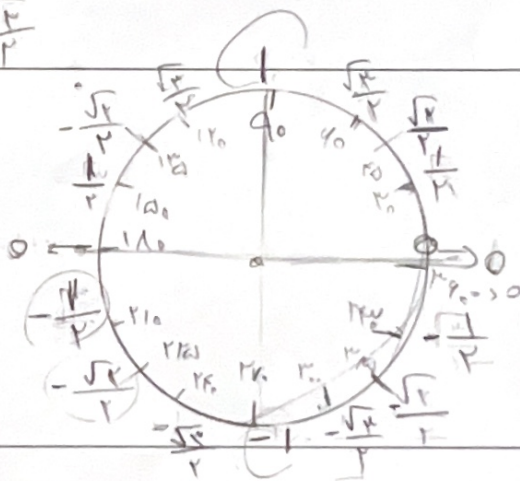
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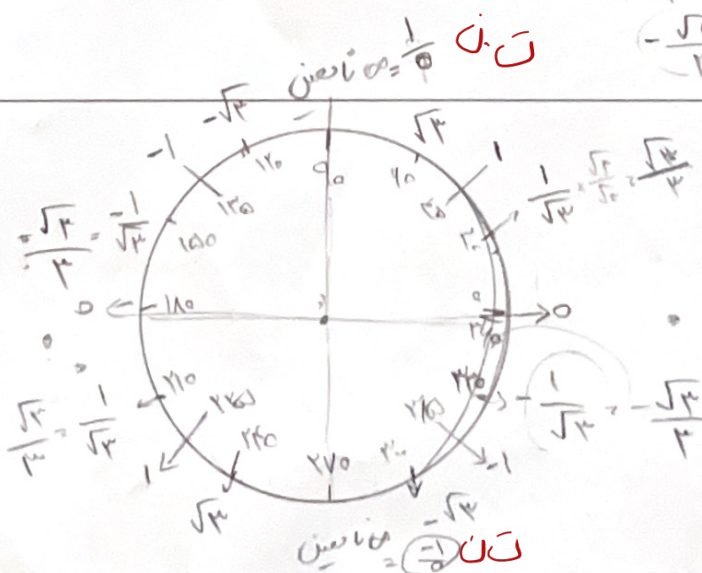
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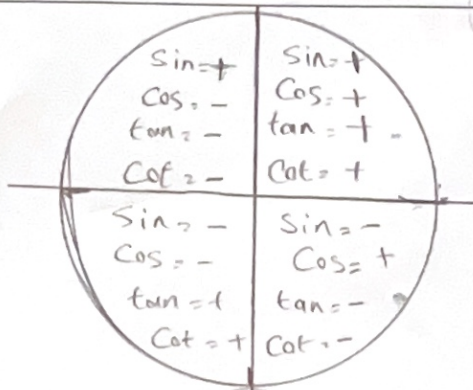
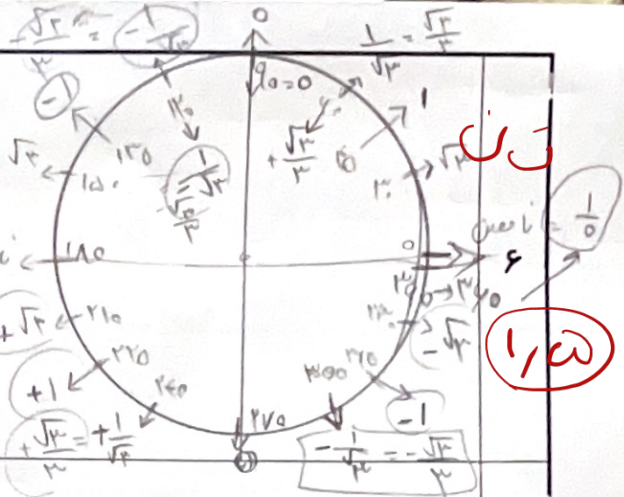


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ج. ب

$$\frac{-1}{0} = \text{undefined}$$



ج

$$\sin(140^\circ) = \frac{\sqrt{r}}{r} = \sin(40^\circ) \Rightarrow \text{ج. ب}$$

$$\cos(150^\circ) = -\frac{\sqrt{r}}{r} = \cos(210^\circ) \Rightarrow \text{ج. ب}$$

$$\tan(135^\circ) = -\frac{\sqrt{r}}{r} = \tan(225^\circ) \Rightarrow \text{ج. ب}$$

$$\cot(135^\circ) = -1 = \cot(225^\circ) \Rightarrow \text{ج. ب}$$

$$\cos\left(\frac{\pi}{4}\right) = \frac{1}{\sqrt{2}} \rightarrow \frac{1}{r} = \sin\left(\frac{\pi}{4}, \frac{\pi}{4}\right) = \frac{\pi}{4}, \frac{\pi}{4}$$

ج

$$\cos\left(\frac{11\pi}{4}\right) = \frac{\sqrt{r}}{r} \rightarrow -\frac{\sqrt{r}}{r} = \sin\left(\frac{\pi}{4}, \frac{\pi}{4}\right) = \left(\frac{\pi}{4}, \frac{\pi}{4}\right)$$

$$\cot\left(\frac{5\pi}{4}\right) = -1 = \cos\left(\frac{11\pi}{4}\right) = -1 \Rightarrow \text{ج. ب}$$

ج

$$\cos(120^\circ) = -\frac{\sqrt{r}}{r} \rightarrow \frac{\sqrt{r}}{r} = \sin(40^\circ, 120^\circ) = \text{ج. ب}$$