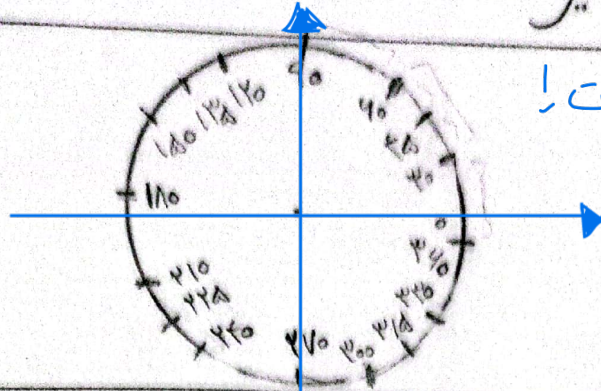
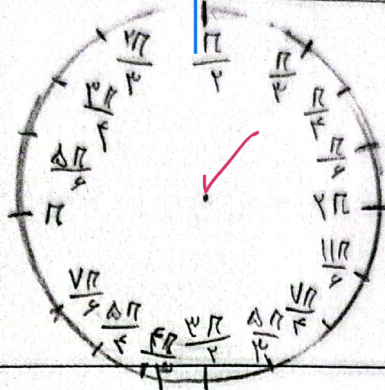


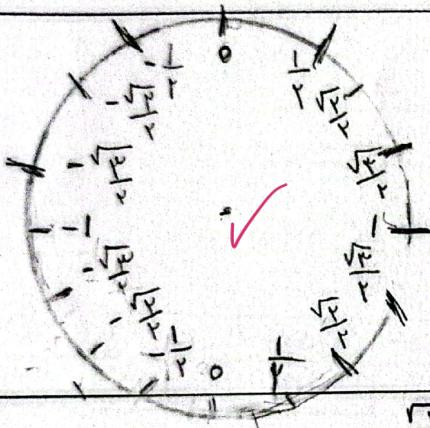
اشرفی



1, 10

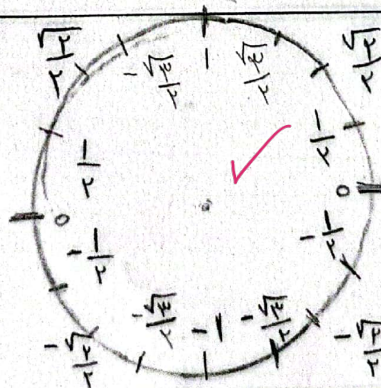
1940

1,10



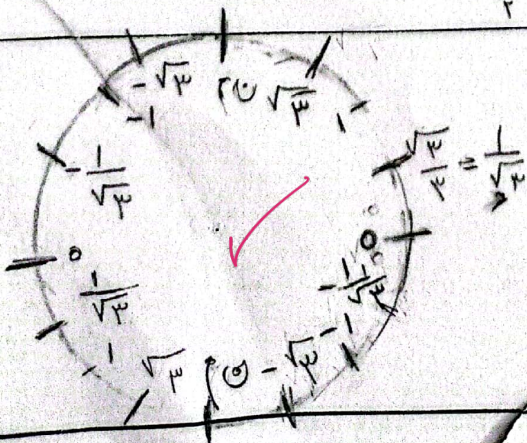
125

1, 2, 3



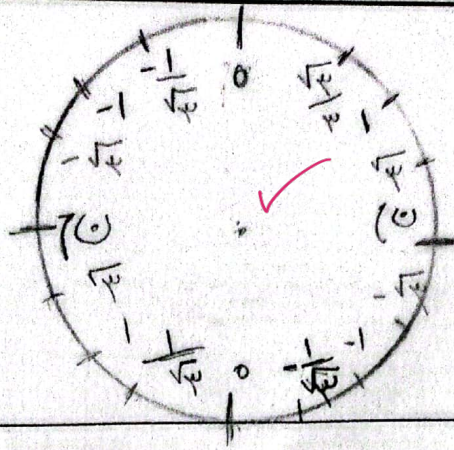
12/20

1, va



120

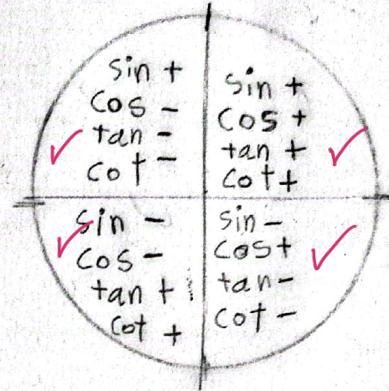
1, $\sqrt{x}$



مقدور

1, 75

6



1, 75

7

به عبارت جواب اول نمل بنویس

$$\sin 12^\circ = \frac{\sqrt{3}}{2} \rightarrow \sin x = \frac{\sqrt{3}}{2} \rightarrow x = 4^\circ$$

- الف) 90 درجه $\leftarrow \frac{\sqrt{2}}{2}$
- ب) 45 درجه $\leftarrow -\frac{\sqrt{3}}{2}$
- ج) 150 درجه $\leftarrow -\frac{1}{\sqrt{3}}$
- د) 315 درجه $\leftarrow -1$

2

8

الف) $\frac{5\pi}{6}$ و $\frac{\pi}{6}$ $\rightarrow \cos \frac{2\pi}{3} \rightarrow -\frac{1}{2} \xrightarrow{\text{قرینه}} \frac{1}{2} = \sin 30^\circ \text{ و } 150^\circ \xrightarrow{\text{رایان}} \frac{5\pi}{6}$

ب) $\frac{4\pi}{3}$ و $\frac{2\pi}{3}$ $\rightarrow \cos \frac{11\pi}{6} \rightarrow \frac{\sqrt{3}}{2} \xrightarrow{\text{قرینه}} -\frac{\sqrt{3}}{2} = \sin 30^\circ \text{ و } 240^\circ \xrightarrow{\text{رایان}} \frac{4\pi}{3}$

2

9

الف) 180 درجه $\rightarrow \frac{7\pi}{4} \xrightarrow{\text{cot}} 315^\circ \Rightarrow -1 = \cos 180^\circ$

ب) 120 درجه و 60 درجه $\rightarrow \cos 150^\circ \rightarrow -\frac{\sqrt{3}}{2} \xrightarrow{\text{قرینه}} \frac{\sqrt{3}}{2} = \sin 120^\circ \text{ و } 60^\circ$

2

10