

$$\text{الف} \quad -1 - \frac{\sqrt{2}}{2} \times \frac{\sqrt{2}}{2} = -1 + \frac{2}{4} = -\frac{1}{2}$$

$$\frac{11}{4}\pi = 2\pi + \frac{3}{4}\pi \rightarrow 135^\circ$$

$$\frac{10}{4}\pi = 2\pi + \frac{2}{4}\pi \rightarrow 150^\circ$$

$$\frac{13}{4}\pi = 2\pi + \frac{1}{4}\pi \rightarrow 225^\circ$$

$$\text{ب} \quad -\frac{1}{\sqrt{3}} \times -\frac{\sqrt{3}}{2} - \frac{1}{2} = \frac{1}{2} - \frac{1}{2} = 0$$

$$\frac{17}{4}\pi = 2\pi + \frac{1}{4}\pi \rightarrow 45^\circ$$

$$\frac{11}{4}\pi = 2\pi + \frac{3}{4}\pi \rightarrow 315^\circ$$

$$\frac{10}{4}\pi = 2\pi + \frac{2}{4}\pi \rightarrow 270^\circ$$

$$\frac{2\cos x - \sin x}{\cos x + \sin x} \xrightarrow{\cot = t} \frac{2 - \cot^2 - 1}{\cot + 1} = \frac{11}{5}$$

ربع دوم سے صورت ملتی

$$\begin{matrix} \cos \alpha & x \\ 2\cos \alpha & 2x \end{matrix}$$

نامیہ درجہ بنی

$$x^2 + 4x^2 = 1 \rightarrow 5x^2 = 1 \rightarrow x^2 = \frac{1}{5} = \frac{1}{\sqrt{5}}$$

$$\frac{2}{4}\pi$$

$$\text{الف} \quad \cos\left(\frac{11}{4}\pi + \alpha\right) = \cos\left(\frac{3}{4}\pi + \alpha\right) = \cos\frac{3}{4}\pi \cos \alpha - \sin\frac{3}{4}\pi \sin \alpha$$

$$\sin^2 + \cos^2 = 1 \rightarrow \frac{4}{4} + \cos^2 = 1 \rightarrow \cos^2 = 0 \rightarrow \cos = 0 \rightarrow \sin = 1$$

$$\text{ب} \quad \sin\left(\frac{17}{4}\pi + \alpha\right) = \sin\left(\frac{1}{4}\pi + \alpha\right) = \sin\frac{1}{4}\pi \cos \alpha + \sin \alpha \cos\frac{1}{4}\pi$$

$$2\sin^2 x + \cos^2 x = \frac{4}{3} \rightarrow \sin^2 x + 1 = \frac{4}{3} \Rightarrow \sin^2 x = \frac{1}{3}$$

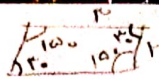
$$\sin x = \frac{\sqrt{3}}{3} \quad \cos = \pm \frac{\sqrt{4}}{3} \quad \left(\frac{\sqrt{3}}{\sqrt{4}}\right)^2 = \frac{3}{4} = \frac{1}{2}$$

$$\text{مساحت} = \frac{1}{2} \times 4 \times \sqrt{3} \times \sin \alpha = 4.5 = \frac{9}{2} \rightarrow \sin \alpha = \frac{\frac{9}{2}}{\frac{4 \times \sqrt{3}}{2}} = \frac{3}{2\sqrt{3}} = \frac{\sqrt{3}}{2}$$

$$\frac{120}{40} = 3$$

بیشترین تعداد = 40

بیشترین تعداد = 120



r_{90}

$$r_{90} - r_{100} = 40 \div 2 = 20$$

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$$r_n = 4\sqrt{r} \quad r_n = 9\sqrt{r}$$

$$4\sqrt{r} + 4\sqrt{r} + 9\sqrt{r} + 9\sqrt{r} = 26\sqrt{r}$$

$$96 \sin \alpha = 2r \rightarrow r_n \times r_n \times \frac{1}{r} = 2r$$

$$r_n^2 = 2r \rightarrow r_n^2 = 18 \rightarrow r_n = \sqrt{18} = 3\sqrt{2}$$

$$\text{ABC مساحت} = \omega \times v \times \frac{1}{r} \times \sin A = 14\omega \sin A$$

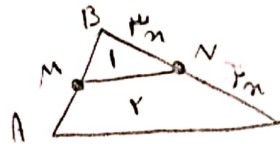
$$\text{APF مساحت} = r \times v \times \frac{1}{r} \times \sin A = 1r \sin A$$

}

$$r_1 \omega \sin A = 14\omega$$

$$\sin A = \frac{1}{r} \rightarrow \text{در مثل قائم}$$

$$\tan r_0 = \frac{1}{\sqrt{r}}$$



$$r_{BN} = r_{NC}$$

$$0x \times y = r_n \times y \times r$$

$$0x \times y = 9x \times y'$$

$$\frac{y}{y'} = \frac{9}{0}$$

$$\frac{BA}{BM} = \frac{9}{0} \Rightarrow \frac{BM}{AM} = \frac{\omega}{r}$$

$$\frac{1 - \sin \alpha}{1 \cos \alpha} = \frac{1 + \sin \alpha}{1 \cos \alpha}$$

$$\frac{1 + \sin \alpha}{1 \cos \alpha}$$

$$\frac{|\sin \alpha|}{\cos \alpha} = \frac{-\sin}{\cos} \rightarrow \sin \text{ منفی}$$

بسیار کم

کثیر هم منفی

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