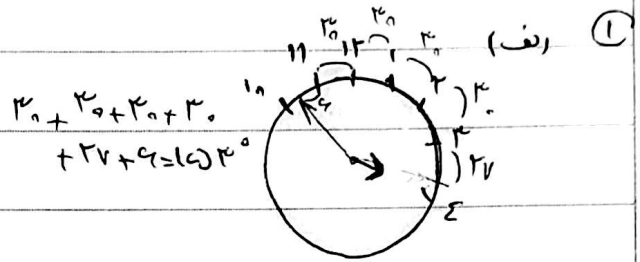


باقی سب سے دسم رفتہ B تا ایف سیر ۱۹

$$|a_{arm} - r_{oh}|$$

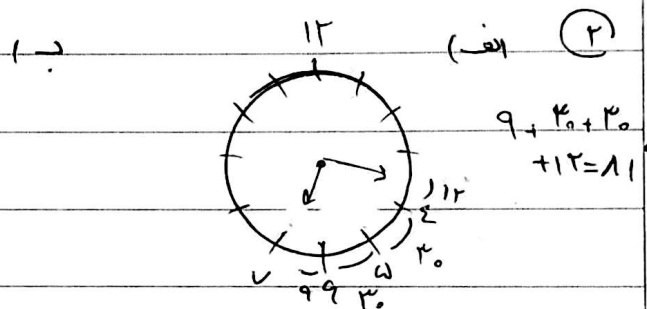
$$|a_{arm} - r_{oh}| = |r_{oh}| = r_{oh}$$

$$r_{oh} = 20V = \underline{100^\circ}$$



$$|a_{arm} - r_{oh}|$$

$$|a_{arm} - r_{oh}| = |-11| = \underline{11}$$



$$S = \frac{\alpha}{r} R^2 = \frac{\pi}{12} \times 9 = \frac{3\pi}{4} \text{ (انف) (۳)}$$

$$|a_{arm} - r_{oh}| = \frac{\pi}{9} \times r_{oh}^2 = \frac{\pi}{9}$$

$$r_{oh} = \frac{\pi}{9} + 9 = \frac{\pi + 81}{9}$$

$$S = \frac{1}{r} \times a \times n \times \frac{r_{oh}^2}{r} = \underline{100^\circ} \text{ (انف) (۴)}$$

$$BC = \sqrt{11^2 + 11^2 - 2(11)(11)\frac{1}{2}} = V \quad P = V + 11 + 11 = r_{oh} \text{ (۵)}$$

$$\hat{B} + \hat{C} = 180^\circ \rightarrow \hat{A} = r_{oh} \text{ (۶)}$$

$$\frac{L_a}{\sin r_{oh}} = \frac{100^\circ}{\sin \beta} \rightarrow r_{oh} = \frac{100^\circ}{\sin \beta} = \sin \beta \rightarrow \frac{r_{oh}}{r} \rightarrow \beta = \underline{100^\circ}$$

$$180^\circ - 100^\circ = 80^\circ$$

$$\frac{100^\circ}{\frac{100^\circ}{9}} = \frac{R_{rad}}{\pi} \rightarrow R_{rad} = \frac{5\pi}{9}$$

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$$\frac{-\tan(\alpha) + r \tan(\alpha)}{-\tan(\alpha) - \tan(\alpha)} = \frac{r \tan(\alpha)}{-r \tan(\alpha)} = -1 \quad (4)$$

$$\frac{\frac{\pi}{r} = 10^\circ}{\tan \frac{\pi}{r} = \alpha \quad \cot \frac{\pi}{r} = \frac{1}{\alpha}} \left[A = \frac{r \tan\left(\frac{\pi}{r} - 10^\circ\right) + \tan\left(\frac{\pi}{r} + 10^\circ\right)}{r \tan(\pi - 10^\circ) - \tan\left(\frac{\pi}{r} - 10^\circ\right)} \right] \quad (5)$$

$$= \frac{r \cot(10^\circ) - \cot(10^\circ)}{-r \tan(10^\circ) + \cot(10^\circ)} = \frac{\frac{1}{\alpha}}{-\frac{r}{\alpha} - 1} = \frac{-1}{r\alpha + 1}$$

$$\frac{(\sin \alpha + \cos \alpha)^r + (\sin \alpha - \cos \alpha)^r}{1 - \cos \alpha (\sin^r \alpha - \cos^r \alpha)} = \frac{1}{\sin^r \alpha + \cos^r \alpha + \sin^r \alpha \cos^r \alpha + \sin^r \alpha \cos^r \alpha} \quad (1)$$

$$1 - \cos \alpha (\sin^r \alpha - \cos^r \alpha)$$

$$\rightarrow 1 - \tan^r \alpha = 0 \rightarrow \tan^r \alpha = 1$$

$$\frac{r}{1 - r \cos^r \alpha} = r \rightarrow r = r - r \cos^r \alpha = -r \cos^r \alpha = -1 \rightarrow r \cos^r \alpha = \frac{1}{r}$$

$$\frac{\sin^r \alpha - r \cos^r \alpha + 1}{\sin^r \alpha + r \cos^r \alpha - 1} = \varepsilon \quad (9)$$

$$\frac{\div \cos^r \alpha}{\div \cos^r \alpha} \rightarrow \frac{\tan^r \alpha - r \left(\frac{1}{\cos^r \alpha}\right)}{\tan^r \alpha + r \left(\frac{1}{\cos^r \alpha}\right)} = \varepsilon$$

$$\frac{r \tan^r \alpha - 1}{1} = \varepsilon$$

$$r \tan^r \alpha - 1 = \varepsilon \rightarrow \tan^r \alpha = \frac{\varepsilon + 1}{r}$$

$$\tan^r \alpha = r \varepsilon$$

$$\text{ii) } \cos^r \alpha = \frac{1 + \cos^r \alpha}{r} \rightarrow \cos \varepsilon = \frac{1 + \frac{r}{r}}{r} = \frac{r + \sqrt{r}}{r} = \cos^r(r \varepsilon) \quad (10)$$

$$\rightarrow \sin^r \alpha = 1 - \frac{\cos^r \alpha}{r} = \frac{1 + \sqrt{r}}{r} \quad \cos^r(r \varepsilon) = \frac{1 + \sqrt{r}}{r}$$

$$\sin 90^\circ = \frac{1 + \sqrt{r}}{r} \quad \cos \beta = \sin \alpha \leftarrow \beta + \alpha = 90^\circ$$

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