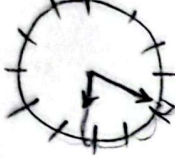


نام و نام خانوادگی پاسخنامه تشریحی تکلیف شماره ۱۹... کلاس A.....

$\alpha = 10,5m - 30h$ $\alpha = 51004 - 30 \times 12 = 20V$ $\rightarrow 30 \times 40 - 20V = 1030^\circ = (B)$ $11 \times 12 = 29V$ الف)  $5 \times 30 + 4 = 144 + 2V = 1030^\circ$ $\frac{30}{40} = \frac{2V}{30^\circ}$	1
الف)  $5 \times 30 + 4 \times 12 + 4 = 11^\circ$ ب) $10,5m - 30h = 51004 - 30 \times 12 = 11^\circ$	2
الف) $S = \frac{\alpha}{V} R^2 = \frac{\pi}{4} \times 12^2 = \frac{\pi}{4} \times 4 = \frac{3\pi}{4}$ ب) $P: \alpha R = \frac{\pi}{4} \times 12 = \frac{\pi}{4}$	3
الف) $S = \frac{1}{2} \times \omega \times A^2 \times \frac{\sin 2\theta_0}{2\theta_0} = 10\sqrt{3}$ $a = \sqrt{25 + 44} = \sqrt{69} = \sqrt{44} = V$ $P = 5 + 1 + V = 10$	4
$B, C = 150 \rightarrow a = 30^\circ$ $\frac{15}{\frac{1}{2}} = \frac{15\sqrt{2}}{?} \rightarrow ? = \frac{\sqrt{2}}{2} \rightarrow \beta = 45^\circ \times \frac{\pi}{2} = \frac{\pi}{2}$ $100 - 40 = 60 = 10 \times \frac{\pi}{2} = \frac{5\pi}{2} = \hat{C}$	5

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

$$\frac{r \tan\left(\frac{\pi}{r} - \frac{\pi}{1r}\right) + r \tan\left(\frac{\pi}{r} + \frac{\pi}{1r}\right)}{r \tan\left(\pi - \frac{\pi}{1r}\right) - \tan\left(\frac{r\pi}{r} - \frac{\pi}{1r}\right)} = \frac{r \cot \frac{\pi}{1r} - \cot \frac{\pi}{1r}}{-r \tan \frac{\pi}{1r} - \cot \frac{\pi}{1r}} = \frac{\cot \frac{\pi}{1r}}{-r - \frac{1}{r}} = \frac{1}{-r^2 - 1}$$

$\frac{1}{-r^2 - 1}$

$$\frac{\sin^r n + \cos^r n + r \sin n \cos n + \sin^r n + \cos^r n - r \sin n \cos n}{\sin^r n + \cos^r n} = \frac{r(\sin^r n + \cos^r n)}{\sin^r n + \cos^r n} = r$$

$$\sin^r n - \cos^r n = \frac{r}{r} - r \sin^r n - 1 = \frac{r}{r} \rightarrow r \sin^r n = \frac{0}{r} \rightarrow \sin^r n = \frac{0}{r} \rightarrow \cos^r n = \frac{1}{r}$$

$$\tan^r n = \frac{\sin^r n}{\cos^r n} = \frac{\frac{0}{r}}{\frac{1}{r}} = 0$$

$$\frac{\sin^r n - r \cos^r n + 1}{\sin^r n + r \cos^r n - 1} = \frac{1 - \cos^r n - r \cos^r n + 1}{\cos^r n} = \frac{r - r \cos^r n}{\cos^r n} = \frac{r}{\cos^r n} - r = 0 \rightarrow \frac{r}{\cos^r n} = r$$

$$\cos^r n = \frac{r}{r} \rightarrow \sin^r n = \frac{0}{r} \quad \tan^r n = \frac{\sin^r n}{\cos^r n} = \frac{\frac{0}{r}}{\frac{r}{r}} = \frac{0}{r} = 0$$

$$\cos^r \alpha = \frac{1 + \cos \frac{\sqrt{r}}{r}}{r} = \frac{r + \sqrt{r}}{r} = \frac{r + \sqrt{r}}{r} \rightarrow \cos(r, 0) = \frac{\sqrt{r + \sqrt{r}}}{r}$$

$$\sin^r \alpha = \frac{1 - \cos \frac{\sqrt{r}}{r}}{r} = \frac{r - \sqrt{r}}{r} = \frac{r - \sqrt{r}}{r} \rightarrow \sin(r, 0) = \frac{\sqrt{r - \sqrt{r}}}{r}$$