

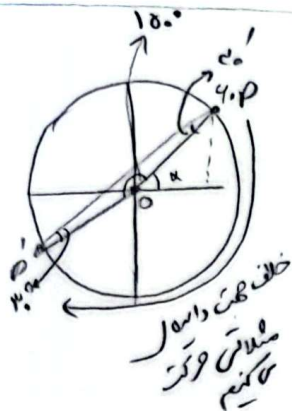
12.0

$$= \frac{-\frac{\sqrt{k}}{r}(a+b)}{\frac{1}{k}(b-a)} = -\frac{\sqrt{k}}{k}$$

$$E_a = -rD \rightarrow D = \frac{E}{-r}$$

③

جواب: $\frac{1}{2}$



چوں دایره ملک تراست شعاع - ص ۱۴۸

$S_{\text{مربع}} = \sin \alpha \times \frac{1}{4} \times \text{مربع} \times \text{مربع}$

$$\underline{\text{Ans}} = 1 + 1 + \frac{\sqrt{4} + \sqrt{2}}{r} = 2 + \frac{\sqrt{4} + \sqrt{2}}{r}$$

$$S = \frac{1}{4} \times 1 \times 1 \times \frac{1}{4} = \frac{1}{16}$$

$$\rho \begin{vmatrix} \cos \varphi. \\ \sin \varphi. \end{vmatrix} \rightarrow \rho' \begin{vmatrix} -\frac{\sqrt{2}}{2} \\ -\frac{1}{2} \end{vmatrix}$$

$$PP' = \sqrt{\left(\frac{\sqrt{r}}{r} - \left(-\frac{1}{r}\right)\right)^2 + \left(\frac{1}{r} - \left(-\frac{\sqrt{r}}{r}\right)\right)^2}$$

$$= \frac{\sqrt{4} + \sqrt{r}}{r}$$

$\frac{\lambda}{a}$

$$1.2 \times \frac{17}{9} \times \frac{1}{17} = \underline{Y.}$$

۱۔ عوامل و فضا

بعد از هر ضرب $\frac{1}{9}$ مقصور $\Rightarrow 20 \times 2 = 40$

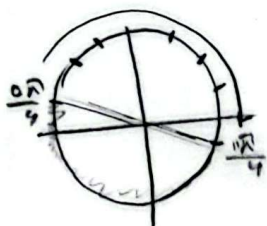
عقرب و سمیت لیس و نصف
عقرب و دقیقه لیس و مہابہ و سہابہ و حلال
و اور عدد ۲۴ — کیم

ساعت شمار
ساعت مرشد

$$\checkmark \frac{P: \epsilon.}{5}$$

$$\alpha = \left| \frac{11}{V} M - \psi, H \right| \longrightarrow \begin{array}{l} 818 M - 9,54, \longrightarrow \frac{11}{V} M = 11. \\ 818 M - 9,5 - \psi, \longrightarrow \frac{11}{V} M = V. \end{array}$$

$$m = r_0 \rightarrow r_0 > \frac{1 \text{ s}}{11} \rightarrow \begin{cases} r_{\min} \rightarrow (2) \text{ s} \\ \frac{1 \text{ s}}{11} \min \rightarrow (1) \text{ s} \end{cases}$$



$$-\frac{1}{4} < \sin m \leq \frac{1}{4} \longrightarrow -\frac{1}{4} < \frac{m-\pi}{\delta} < 1$$

$$-\frac{\sigma}{4} < m - 10 < 0$$

$\xrightarrow{+x}$ $\frac{1}{2} < m \leq 1$

$$\frac{\sin(\frac{\pi}{4} + 18) + K \cos(\frac{\pi}{4} - 18)}{\cos(\pi - 18) + Y \sin(\pi + 18)} = Y$$

$$Y = \frac{\cos 18 + (-K \sin 18)}{-\cos 18 - Y \sin 18} \quad \text{منه } Y = \frac{1 - \frac{K}{Y}}{-1 - \frac{1}{Y}} \rightarrow -\frac{1}{Y} - \frac{Y}{Y} = -\frac{K}{Y}$$

منه $\frac{1}{Y} = \frac{K}{Y} \rightarrow K = 1$

$$\frac{\cot m + \cot m}{1 + \tan m - \tan m} = \frac{Y \cot m}{-Y \tan m} = -Y \cot^2 \alpha = -Y \left(\frac{1}{K}\right) = -\frac{1}{K}$$

$$\frac{1 - \cos m}{1 + \cos m} = Y \rightarrow 1 - \cos m = Y + Y \cos m \rightarrow 1 - Y \cos m = Y \rightarrow \cos m = \frac{1 - Y}{Y}$$

① $\rightarrow \cos m < 1 / \sin m > 0 / \tan m < 0 / \cot m > 0$

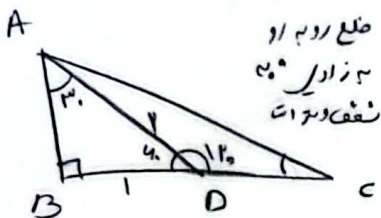
$\frac{Y \cot m}{-Y \tan m} = \frac{-1}{Y}$

$$\frac{10 \Lambda}{1 \Lambda 0} = \frac{Y \pi}{\pi} \rightarrow K A R_A = \alpha B R_B$$

$$\frac{Y \pi}{\pi} \times R_A = \frac{9 \pi}{1} \times R_B$$

$$\frac{R_A}{R_B} = \frac{Y}{9}$$

$$\frac{S_A}{S_B} = \left(\frac{R_A}{R_B}\right)^2 \times \frac{\frac{1}{2} \times \frac{1}{2}}{\frac{1}{2} \times \frac{1}{2}} = \left(\frac{Y}{9}\right)^2$$



$$\rightarrow AD = Y$$

$$AB = Y \times \frac{\sqrt{2}}{Y} \rightarrow \sqrt{2}$$

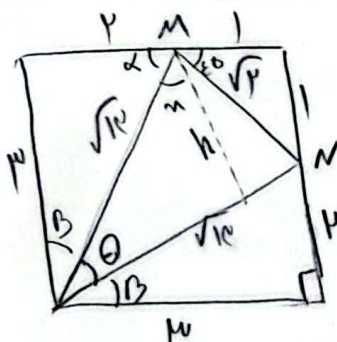
$$S_{ABC} = \sqrt{2} \rightarrow \frac{1}{2} \times AB \times BC = \sqrt{2} \rightarrow \frac{1}{2} \times \sqrt{2} \times \sqrt{2} = \sqrt{2}$$

$$BC = Y \rightarrow DC = 1, AC = \sqrt{1+1} = \sqrt{2}$$

$$\sin C = \frac{\sqrt{2}}{\sqrt{2}}$$

$$\cos C = \frac{Y}{Y}$$

$$\sin C = Y \sin C \cos C = Y \times \frac{\sqrt{2}}{\sqrt{2}} \times \frac{Y}{Y} = \frac{Y \sqrt{2}}{Y}$$



$$\alpha + \beta = 90$$

$$n + a = 108$$

$$\theta + r\beta = 90$$

$$h = \sqrt{1^2 - n^2} = \sqrt{r^2 - y^2} \rightarrow 1^2 - n^2 = r^2 - y^2$$

$$n^2 - y^2 = 1 \rightarrow (n - y)(n + y) = 1$$

$$n + y = \sqrt{2}$$

$$\rightarrow r\beta = \frac{1 + 1}{\sqrt{2}} = \frac{2}{\sqrt{2}} \rightarrow h = \sqrt{\frac{1}{2}} = \frac{1}{\sqrt{2}}$$

$$\sin \theta = \frac{h}{\sqrt{2}} = \frac{1}{\sqrt{2}} \times \frac{1}{\sqrt{2}} = \frac{1}{2}$$