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۱۲ کتب

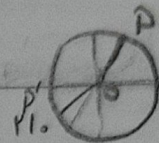
نیل قسری

$$a \times \frac{\sqrt{r}}{r} + b \frac{-\sqrt{r}}{r} = \frac{-\sqrt{r}}{r} = \left(\frac{-\sqrt{r}a}{r} + \frac{-\sqrt{r}b}{r} \right) = \frac{a\sqrt{r}}{4} - \frac{b\sqrt{r}}{4} \quad 1$$

$$a \times \frac{1}{r} + b \frac{1}{r} \rightarrow \frac{-\sqrt{r}a}{4} + \frac{-\sqrt{r}b}{4} = \frac{a\sqrt{r}}{4} - \frac{b\sqrt{r}}{4}$$

$$\Rightarrow \frac{-\sqrt{r}a}{4} - \frac{a\sqrt{r}}{4} = \frac{-b\sqrt{r}}{4} + \frac{b\sqrt{r}}{4} \Rightarrow -2a = b \rightarrow \frac{b}{a} = -2$$

$$P\left(\frac{1}{r}, \frac{\sqrt{r}}{r}\right) = 90^\circ \text{ جیب } r1^\circ \rightarrow P' = r1^\circ$$



$$\text{مس } OPP' = \overline{PO} + \overline{P'O} + \overline{PP'} = 1 + 1 + 1 = 3$$

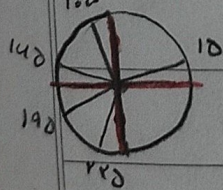
$$\overline{PP'} = r R \sin \alpha = r \times 1 \times \sin 90^\circ = 1$$

$$\frac{\pi}{4} \mid 1h \quad ? h = \frac{\pi}{4} h = F_{\min} \rightarrow 29 \text{ } \xi_0$$

$$\theta = \left| \frac{11M}{r} - r_0 H \right| \Rightarrow r_0 = \left| \frac{11M}{r} - 9_0 \right| \Rightarrow \begin{cases} r_0 = \frac{11M}{r} - 9_0 \Rightarrow M = r_0 \\ r_0 = \frac{11M}{r} - 9_0 \end{cases}$$

$$-1 < \sin x \leq \frac{1}{r} \rightarrow -1 < \frac{m-r}{a} \leq \frac{1}{r}$$

$$\rightarrow -1 < m \leq 2, a \rightarrow \text{مس } 1$$



$$\begin{aligned} &+ \cos 12^\circ - k \sin 12^\circ \\ &- \cos 12^\circ - r \sin 12^\circ \end{aligned} = r \tan = \frac{1}{r} \rightarrow \frac{r-k}{-r-r} = r$$

$$r-k = -1 \Rightarrow k = r+1$$

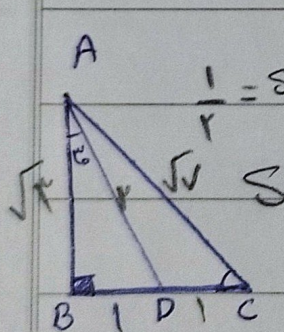
$$\frac{r \sin' \frac{x}{r}}{r \cos' \frac{x}{r}} = \tan' \frac{x}{r} \doteq r \Rightarrow \tan x = \frac{r \tan' \frac{x}{r}}{1 - \tan' \frac{x}{r}} = \frac{-\sqrt{r}}{-1} \quad -V$$

$$\Rightarrow \frac{+\cot x + \cot x}{+\tan x - r \tan x} = \frac{r \cot x}{-\tan x} = -r \cot' x = -r \times \frac{1}{\tan' x}$$

$$\Rightarrow \tan' x = 1 \Rightarrow -r \cot' x = -\frac{r}{1} = -\frac{1}{2}$$

$$L = OR \Rightarrow \frac{10 \wedge \pi}{1 \wedge 0} \times r_A = \frac{9 \pi}{10} \times r_B \Rightarrow \frac{r_A}{r_B} = \frac{\frac{9 \pi}{10}}{\frac{10 \pi}{10}} = \frac{9}{10} \quad -A$$

$$\Rightarrow \frac{r_A}{r_B} = \frac{10}{9} \rightarrow \frac{S_A}{S_B} = \frac{9}{10}$$

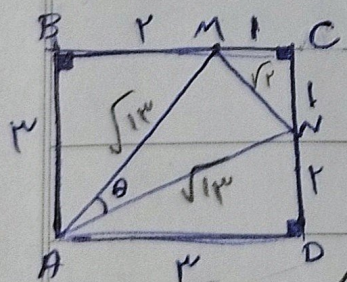


$$\frac{1}{2} = \sin' r_0 = \frac{BD}{AD \sqrt{r}} \Rightarrow AD = r, AB = \sqrt{r-1} = \sqrt{r} \quad -9$$

$$S_{ABC} = \frac{AB \times BC}{2} = \sqrt{r} \Rightarrow BC = r \Rightarrow DC = 1$$

$$\sin \hat{C} = \frac{\sqrt{r}}{\sqrt{r}}, \cos \hat{C} = \frac{r}{\sqrt{r}} \Rightarrow \sin' \hat{C} = r \sin \hat{C} \cos \hat{C}$$

$$= r \times \frac{\sqrt{r}}{\sqrt{r}} \times \frac{r}{\sqrt{r}} = \frac{r \sqrt{r}}{\sqrt{r}}$$



$$AM = AN, BM' + BA' = AM' = AN' \quad -10$$

$$\Rightarrow \sqrt{r+9} = \sqrt{1r} = AM = AN$$

$$\Rightarrow \cos \theta = \frac{MN}{AM+AN} = \frac{MN}{2AM} = \frac{r \sin \theta + r \cos \theta}{2r \cos \theta}$$

$$\Rightarrow r = 1r + 1r - \frac{r \times 1r \times \cos \theta}{r \cos \theta} \Rightarrow r \cos \theta = r \Rightarrow \cos \theta = \frac{1r}{1r}$$

$$\Rightarrow \sin \theta = \frac{0}{1r}$$