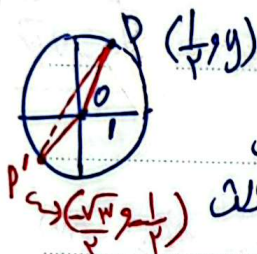


۷۰٪ تمام مقاصد

Date :

$$\frac{a \sin \frac{11\pi}{9} + b \cos \frac{\pi}{9}}{a - b} = \frac{\sin \frac{11\pi}{9}}{\cos \frac{\pi}{9}} \cdot \frac{1}{\frac{1}{\sqrt{3}}} \Rightarrow \frac{\sqrt{3}(a+b)}{(a-b)} = \frac{\frac{1}{\sqrt{3}}}{-\frac{\sqrt{3}}{4}} \Rightarrow \sqrt{3}(a+b) = a-b$$



$\Rightarrow \angle = 40^\circ - 51^\circ = -11^\circ$ $\Rightarrow \sin = -\frac{1}{p}$
 $\cos = -\frac{\sqrt{p}}{p}$ (۲)

$$\text{المسافة} \Rightarrow \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2} = \sqrt{\left(\frac{\sqrt{3}}{2} - \frac{1}{2}\right)^2 + \left(\frac{1}{2} - \frac{\sqrt{3}}{2}\right)^2}$$

$$\frac{r + \sqrt{r} + \sqrt{r}}{p} \leftarrow r + \left(\frac{\sqrt{r}}{p} + \frac{1}{p} \right) \sqrt{p} \leftarrow 10$$

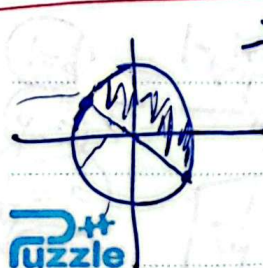
$\frac{\mu}{q} = \frac{1\lambda_0}{q} = 2\lambda_0 \Rightarrow \frac{\mu_0}{\mu_0} \text{ سلسله } = 2\lambda_0 \text{ hib}$

$\mu_0 \text{ سلسله } \rightarrow \text{ سلسله } \rightarrow 2\lambda_0$

(y) (u)

$$|a/\omega M - \gamma_0 H| \xrightarrow{\text{مساواة}} |a/\omega M - \gamma_0| = \gamma_0 \begin{cases} a/\omega M - \gamma_0 = \gamma_0 \\ a/\omega M - \gamma_0 = -\gamma_0 \end{cases} \quad (5)$$

2) ~~1/1~~ $\Rightarrow a/a m = 1/1 \Rightarrow m = 1$ ✓ $d/1/1 \Rightarrow a/a m = 1/1 \Rightarrow m = 1$



$\frac{1}{r} \sqrt{m} |a|$
 $\left. \begin{aligned} \text{min sin} &\rightarrow -\frac{1}{r} \\ \text{max sin} &\rightarrow 1 \end{aligned} \right\} \frac{1}{r} \sqrt{\frac{m-1}{a}} |a| \rightarrow \frac{1}{r} \sqrt{m-1} |a|$ (a)
 $\frac{1}{r} \sqrt{m} |a|$
 $\frac{1}{r} \sqrt{m} |a|$ (b)

Subject: $\cos 10^\circ$

$-k \sin 10^\circ$

Date: _____

$$\sin\left(\frac{\pi}{4} + 10^\circ\right) + k \cos\left(\frac{3\pi}{4} - 10^\circ\right) = \frac{1}{\sqrt{2}} \quad (4)$$

$$\frac{\cos(\pi - 10^\circ)}{-\cos 10^\circ} + \frac{\sin(\pi + 10^\circ)}{-\sin 10^\circ}$$

$$\frac{\sin 10^\circ}{\cos 10^\circ} = \frac{1}{\sqrt{2}}$$

یعنی می توان به جای $\sin$ عدد 1 و به جای $\cos$ عدد $\sqrt{2}$ را فرض کرد.

$$\frac{k + -k}{-k - k} = \frac{1}{\sqrt{2}} \Rightarrow k - k = -1 \Rightarrow k = \frac{1}{\sqrt{2}}$$

$$\cot = \frac{1}{\tan}$$

کمان در زاویه 20° به $\sin$ و $\cos$ منفی است.

$$\frac{\cot n + \cot 2n}{\tan 2n + -2 \tan n} = \frac{2 \cot n}{-\tan n} = \frac{\frac{2}{\tan}}{-\frac{1}{\tan}} = \frac{2}{-\tan^2} = ?$$

$$\frac{1 - \cos n}{1 + \cos n} = 2 \Rightarrow 1 - \cos n = 2 + 2 \cos n \Rightarrow -1 = 3 \cos n \Rightarrow \cos n = -\frac{1}{3}$$

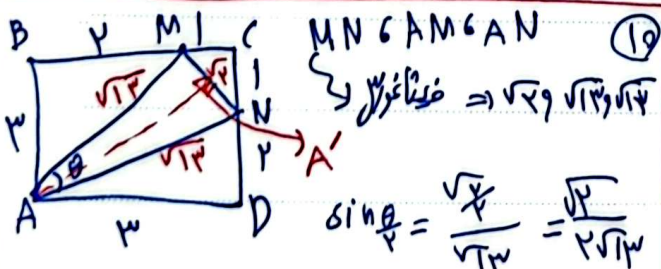
$$\sin^2 + \cos^2 = 1 \Rightarrow \sin^2 + \frac{1}{9} = 1 \Rightarrow \sin = \frac{\sqrt{8}}{3}$$

$$? = -\frac{\frac{2}{\sqrt{8}}}{\left(-\frac{1}{3}\right)} = \frac{3}{\sqrt{2}}$$

$$\frac{10\pi}{180} - \frac{R\pi}{\pi} \Rightarrow R\pi = \frac{3\pi}{\omega}$$

$$A \Rightarrow \frac{3\pi}{\omega} \times V_A \quad B = \frac{9\pi}{10} \times V_B$$

$$\frac{3\pi}{\omega} \times V_A = \frac{9\pi}{10} \times V_B \Rightarrow V_A = 1.5 V_B \quad \frac{S_A}{S_B} = \left(\frac{V_A}{V_B}\right)^2 = \frac{9}{4}$$

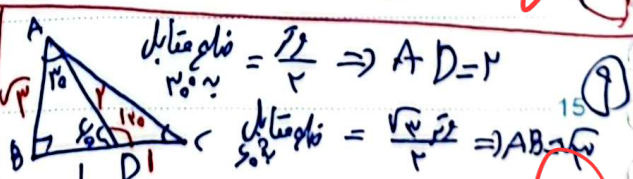


$$\sin \theta = \frac{\sqrt{5}}{\sqrt{17}} = \frac{\sqrt{5}}{\sqrt{17}}$$

$$\sin 2n = 2 \cos n \sin n$$

$$\sin \theta = 2 \times \frac{\sqrt{5}}{\sqrt{17}} \times \frac{\sqrt{5}}{\sqrt{17}} = \frac{10}{17}$$

$$AA' = \sqrt{17 - \frac{1}{4}} = \sqrt{\frac{68}{4}}$$



$$S_{\Delta} = \frac{1}{2} \times 1 \times \sqrt{3} \times \sin 90 = \frac{\sqrt{3}}{2}$$

$$\frac{\sqrt{3}}{2} \times BC = \frac{\sqrt{3}}{2} \Rightarrow BC = 1 \Rightarrow CD = 1$$

$$\sin 2c = 2 \cos c \sin c = 2 \times \frac{1}{\sqrt{2}} \times \frac{1}{\sqrt{2}} = 1$$

$$AC^2 = AB^2 + BC^2 \Rightarrow AC = \sqrt{2}$$