

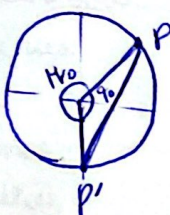
۱۴, ۲۵

کتاب کار ۱۲

سازینا ساری

$$\frac{a \sin(\pi + \frac{\pi}{4}) + b \cos(\pi + \frac{\pi}{4})}{a \sin(\pi - \frac{\pi}{4}) + b \cos \frac{\pi}{4}} = \frac{-\frac{\sqrt{2}}{2}a - \frac{\sqrt{2}}{2}b}{-\frac{a}{2} + \frac{b}{2}} = -\frac{\sqrt{2}}{2} \quad (1)$$

$$\frac{-\sqrt{2}(a+b)}{-a+b} = -\frac{\sqrt{2}}{2} \Rightarrow 2a+2b = -a+b \Rightarrow 3b = -3a \Rightarrow b = -a \quad \frac{b}{a} = -\frac{1a}{a} = -1$$



$$\cos p = \frac{1}{2} \Rightarrow p = 60^\circ \Rightarrow \sin p = \frac{\sqrt{3}}{2}$$

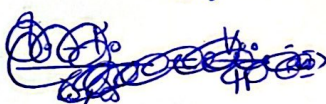
$$40 + 210 = 250 \quad OP = OR = \text{شعاع دایره منتهای} = 1$$

$$\Delta_{POR} = \frac{1}{2} \times 1 \times 1 \times \sin 90^\circ = \frac{1}{2} \quad \Delta_{POR} = \sqrt{1^2 + 1^2 - (1)(1) \cos 90^\circ} = \sqrt{2} \quad \text{مساحت} = 1 + 1 + \sqrt{2} \times \frac{\sqrt{2}}{2}$$

ساعت ۱۲  
۱۲/۹ = ۱۲۰° → ۱۲۰ = ۲π  
۱۲/۹ = ۱۲۰°  
۱۲/۹ = ۱۲۰°  
۱۲/۹ = ۱۲۰°



زادین در عقده → عقده فضا → عقده سلسله → عقده سلسله → عقده سلسله → عقده سلسله



$$\frac{90}{360} = \frac{180}{720} \rightarrow \text{زادین اینجا} \quad \frac{180}{360} = \frac{180}{720} \rightarrow \text{زادین اینجا}$$



$$-1 \leq \sin x \leq \frac{1}{2} \Rightarrow -1 \leq \frac{m-2}{5} \leq \frac{1}{2} \Rightarrow -2 \leq m \leq \frac{11}{2}$$

$$m = -2, -1, 0, 1, 2, 3, 4, 5$$

$$-\frac{1}{2} < \sin x < 1 \rightarrow -\frac{1}{2} < \frac{m-2}{5} < 1 \rightarrow -2.5 < m-2 < 5 \rightarrow -0.5 < m < 7$$

$$-1.5 \leq m \leq 1 \rightarrow$$

۸ × ۸



$$\frac{\sin(\theta + 15) + k \cos(15 - 15)}{\cos(15 - 15) + r \sin(15 + 15)} = \frac{\cos 15 - k \sin 15}{-\cos 15 + r \sin 15} = r$$

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$$\frac{1 - r k}{-1 - r \sin 15} = r \Rightarrow 1 - r k = -r \sin 15 \Rightarrow \frac{k}{r} = \sin 15 \Rightarrow k = r \sin 15$$

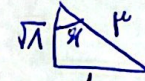
$$\frac{\cos \theta + \cos \theta}{-\tan \theta + r \tan \theta} = \frac{r \cos \theta}{-r \tan \theta} = \frac{r}{r} \times \frac{\cos \theta}{-\sin \theta} = \frac{r}{r} \times \frac{1}{-\frac{1}{r}} = \frac{-1}{r}$$

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

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



$$\frac{\cos \theta + \cos \theta}{\tan \theta - r \tan \theta} = \frac{r \cos \theta}{-r \tan \theta} = -r \cot \theta$$

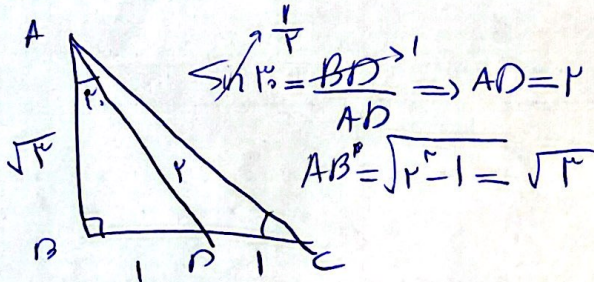
$$\cos \theta = -\frac{1}{r} \Rightarrow -r \cot \theta = -r \frac{1}{r} = -1$$

$$\sin \theta = \pm \frac{\sqrt{r^2 - 1}}{r} \Rightarrow \frac{\sqrt{r^2 - 1}}{r}$$

$$\frac{10 \Lambda}{\mu \gamma} \times \frac{r}{r} \times \frac{r}{r} \times r_A = \frac{9 \pi}{\mu \pi} \times \frac{r}{r} \times \frac{r}{r} \times r_B \Rightarrow \frac{9}{r} r_B = \frac{r}{r} r_A \Rightarrow r_B = \frac{r}{r} r_A$$

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$$\frac{r_A}{r_B} = \left( \frac{r_A}{r_B} \right)^r = \left( \frac{r_A}{r_B} \right)^r = \frac{9}{r}$$



$$\sin \theta = \frac{AD}{AC} \Rightarrow AD = r$$

$$AB^2 = r^2 - 1 = \sqrt{r^2 - 1}$$

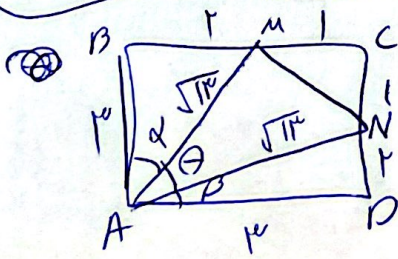
$$\frac{AB \times BC}{r} = \sqrt{r} \Rightarrow \sqrt{r} \times BC = r \sqrt{r} \Rightarrow BC = r$$

$$\tan C = \frac{\sqrt{r}}{1} \Rightarrow C = 45^\circ$$

$$\sin \theta = \sin 15 = \frac{\sqrt{r}}{r}$$



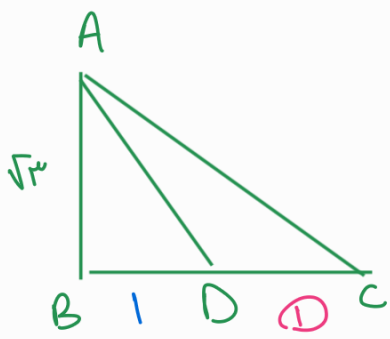
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$$(\alpha + \beta) + \theta = 90 \Rightarrow \sin \theta = \cos(\alpha + \beta)$$

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$$\cos(\alpha + \beta) = \cos \alpha \cos \beta - \sin \alpha \sin \beta = \frac{r}{r} \times \frac{r}{r} - \frac{r}{r} \times \frac{r}{r} = \frac{9}{r} - \frac{r}{r} = \frac{8}{r} = \sin \theta$$



$$S_{ABC} = \sqrt{r}$$

$$\frac{AB \times BC}{r} = \frac{\sqrt{r} \times DC}{r} = \sqrt{r} \rightarrow BC < r \rightarrow DC < 1$$

$$\rightarrow \sin rC = r \times \frac{\sqrt{r}}{\sqrt{v}} \times \frac{r}{\sqrt{v}} = \frac{r\sqrt{r}}{v}$$