

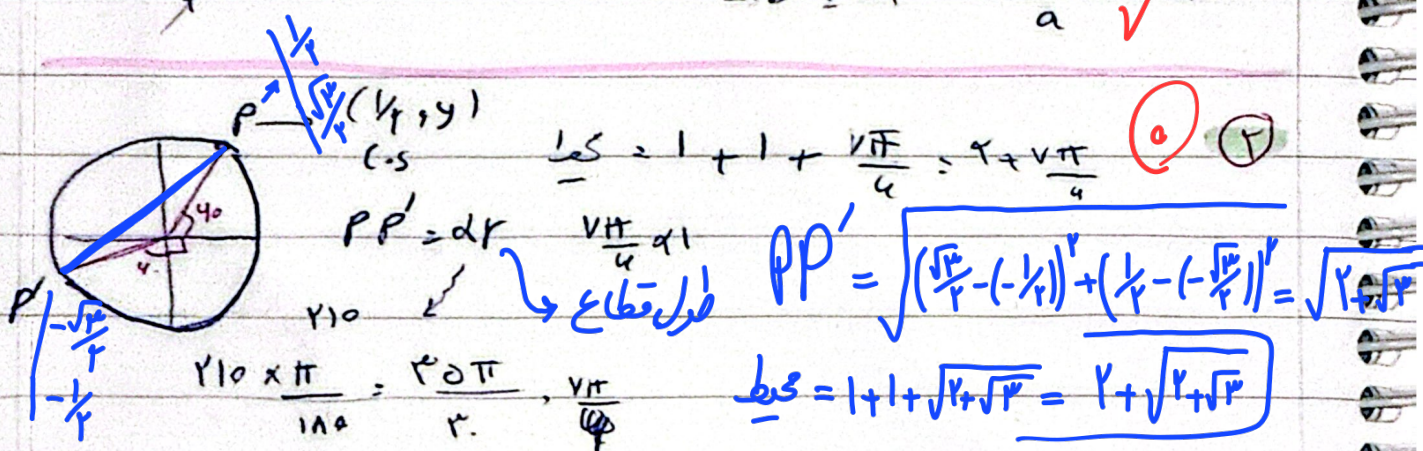
۱۳، ۵

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

$$\frac{a \sin \frac{\pi}{4} + b \cos \frac{\pi}{4}}{\frac{1}{\sqrt{2}}} = \frac{\tan \frac{\pi}{4}}{\frac{1}{\sqrt{2}}}$$

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

$$-2b = 3a \quad \frac{b}{a} = -\frac{3}{2}$$



عقربہ دہیہ شاہ، ۱۴ می چورس ۲۰ ← جلو آمدنی عقربہ دہیہ شاہ، نصف مقدار دہیہ است
 $\frac{\pi}{4} \div \frac{\pi}{9} = \left(\frac{18}{4}\right) = 4.5$
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$$2 \left| \frac{11\pi}{2} - 2 \cdot H \right| \Rightarrow 2 \left| \frac{11\pi}{2} - 2 \cdot 2 \right| \quad (2)$$

$$\frac{11\pi}{2}, 11 \Rightarrow (11-2) \checkmark$$

$$\frac{11\pi}{2}, 11 \Rightarrow 11:14/11$$

$$\frac{\pi}{4} < x < \frac{3\pi}{4}$$



$$\max \sin = 1$$

$$\min \sin = -\frac{1}{r}$$

$$\frac{m-r}{a} = 1$$

$$m-r=a$$

$$\underline{m=a}$$

$$\frac{1}{r} < m \leq 1$$

$$\frac{m-r}{a} = -\frac{1}{r} \Rightarrow rm - a = -a \quad rm = 1 \quad m = \frac{1}{r}$$

$$\sin(1.0) + K \cos(100) = r$$

$$\frac{1}{\varepsilon} \frac{\sin}{\cos} = \frac{\tan 10}{\varepsilon} = \frac{1}{\varepsilon} \quad (4)$$

$$\cos(140) + r \sin(190)$$

$$\varepsilon - K = -1$$

$$\frac{\varepsilon \cos 10 + (-K \sin 10)}{-\varepsilon \cos 10 - r \sin 10} = \frac{\varepsilon - K}{-\varepsilon - r} = r$$

$$K = r$$

$$\frac{\tan(\frac{\pi}{r} - u) - C \cdot t(H - u)}{C \cdot t(\frac{\pi}{r} - u) + r \tan(rH - u)} \Rightarrow \frac{+C \cdot t u + C \cdot t u}{+ \tan u - r \tan u} = \frac{rC \cdot t u}{- \tan u} \quad (5)$$

$$\frac{-rC \cdot t u}{\sin u} = \frac{-r \times \frac{1}{r}}{\frac{1}{r}} = -\frac{1}{\varepsilon} \quad \checkmark$$

$$\frac{1 - C \cdot t u}{1 + C \cdot t u} = r \Rightarrow r + rC \cdot t u = 1 - C \cdot t u \quad C \cdot t u = -\frac{1}{r}$$

$$\sin^2 u + C \cdot t u = 1 \quad 1 - \frac{1}{r} = \frac{1}{r} = \sin^2 u$$

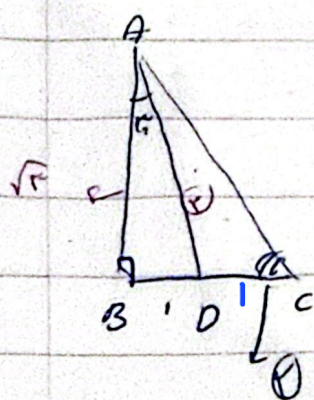
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$$1 \cdot \pi \cdot \frac{\pi}{180} = \frac{\pi \pi}{0} \quad \text{①}$$

$$\frac{\pi \pi}{0} R = \frac{\pi \pi}{1} R'$$

$$\pi R = \pi R'$$

$$\text{②} \quad L = 2R \cdot \frac{\pi \pi}{1} \cdot R' \quad \frac{S_A}{S_B} = \frac{\pi \pi}{\pi \pi} = \frac{1}{1}$$



$$AD = r \cdot 1 \quad S = \frac{AB \times BC}{2} = \frac{\sqrt{r} \times r}{2} = \frac{\sqrt{r}}{2}$$

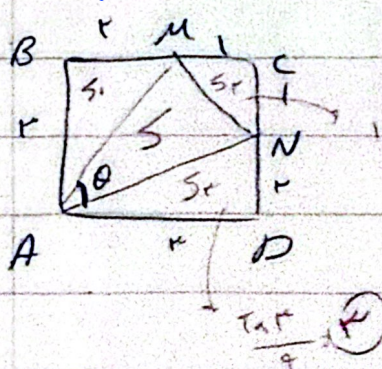
$$AB = \frac{\sqrt{r}}{r} \times r = \sqrt{r} \quad BC = r \quad DC = 1 \quad \text{③}$$

$$S_D = \frac{\sqrt{r} \times BC}{2} = \sqrt{r} \Rightarrow DC = r$$

$$AC = \sqrt{r}$$

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

$$\sin PC = r \sin C \cos C = r \times \frac{r}{\sqrt{r}} \times \frac{r}{\sqrt{r}} = \frac{r \sqrt{r}}{r} = \sqrt{r}$$



$$S_D = S + S_1 + S_2 + S_3$$

$$S_D = 9 = S + r + r + \frac{1}{r}$$

$$S_{\triangle AMN} = \frac{1}{r}$$

$$S = \frac{1}{2} \times \frac{1}{r} \times \sin \theta = \frac{1}{2} \times \frac{1}{r} \times \sin \theta = \frac{1}{2}$$

$$\sqrt{r+9} = \sqrt{r} \quad \text{④}$$

$$\sin \theta = \frac{\omega}{\pi} \quad \text{⑤}$$