

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

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

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

$$-r b = r a \quad \frac{b}{a} = -1$$

Diagram: A circle with radius \$r\$ and a point \$P\$ at \$(r, y)\$. The angle between the radius and the horizontal axis is \$\theta\$.

$$r = 1 + 1 + \frac{r\pi}{4} = r + \frac{r\pi}{4}$$

$$r\pi = r \cdot \frac{\pi}{4} \Rightarrow r = \frac{r\pi}{4}$$

Diagram: A circle with radius \$r\$ and a point \$P\$ at \$(r, y)\$. The angle between the radius and the horizontal axis is \$\theta\$.

$$r\pi \rightarrow \frac{r\pi}{4} = \frac{\pi}{4}$$

$$\frac{\pi}{4} \div \frac{\pi}{4} = \left(\frac{r}{r}\right) \Rightarrow r = r$$

$$a_2 \left| \frac{11\pi}{r} - r \cdot H \right| \Rightarrow r_2 = \left| \frac{11\pi}{r} - r \cdot r \right| \quad (2)$$

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

$$\frac{11\pi}{r}, v \Rightarrow 11 : r/v$$

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



$$\max \sin = 1$$

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

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

$$\frac{m-r}{0} = 1$$

$$m-r=0 \quad \underline{m=1}$$

$$\frac{m-r}{0} = -\frac{1}{r} \Rightarrow rm-r = -1 \quad rm=1 \quad m=\frac{1}{r}$$

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

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

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

$$\epsilon - K = -1$$

$$\epsilon \cos 10 + (-K \sin 10)$$

$$K = r$$

$$-\cos 10 = r \sin 10$$

$$\frac{\epsilon - K}{-\epsilon - r} = r$$

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

$$\frac{-rC \cdot t u}{\sin u} = \frac{-r \times \frac{1}{r}}{\frac{1}{r}} = -\frac{1}{\epsilon}$$

$$\frac{1 - C \cdot s u}{1 + C \cdot s u} = r$$

$$\Rightarrow r + rCsu = 1 - Csu \quad Csu = -\frac{1}{r}$$

$$\sin^2 u + C \cdot s^2 u = 1$$

$$1 - \frac{1}{r} = \frac{1}{r} = \sin^2 u$$

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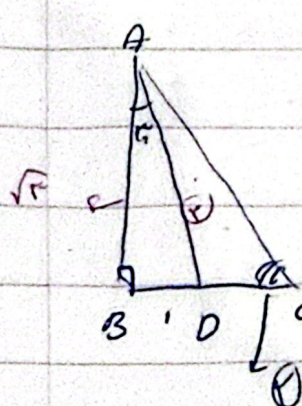
$$1. \Delta \alpha \frac{\pi}{180} = \frac{r\pi}{\theta} \quad \text{①}$$

$$r \frac{\pi}{\theta} R = \frac{r\pi}{1} R'$$

$$rR = rR'$$

$$\text{②} \quad L = 2R \Rightarrow \frac{9\pi}{1} \times R'$$

$$\frac{S_A}{S_B} = \frac{rR}{\epsilon R} = \frac{r}{\epsilon}$$



$$AD = r \alpha 1 = r$$

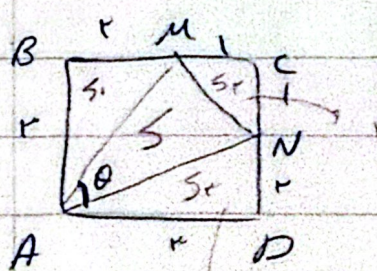
$$AB = \frac{\sqrt{r}}{r} \alpha r \Rightarrow \sqrt{r}$$

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

$$AC = r\sqrt{r}$$

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

$$\sin C = r \sin C \Rightarrow \frac{r}{r\sqrt{r}} \alpha \frac{r}{r} \alpha \frac{1}{r} = \frac{r}{r\sqrt{r}} \alpha \frac{\sqrt{r}}{r} \quad \left(\frac{r}{r}\right)$$



$$S_{\square} = S + S_1 + S_2 + S_3$$

$$\frac{1 \alpha r}{r} = 1$$

$$S_{\square} = 9 = S + r + r + 1$$

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

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

$$\sqrt{\epsilon + 9} = \sqrt{1r} \quad \left(\frac{\epsilon}{1r}\right)$$

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