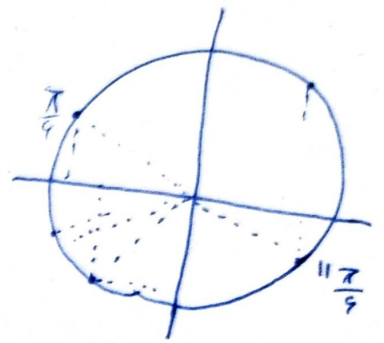


قوسین

1

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



$$(a+b)$$

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

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

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

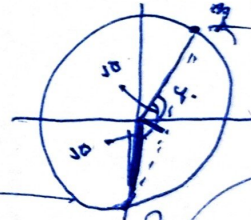
$$ra + rb = -a + b$$

$$ra = -rb$$

2

$$\cos = \frac{1}{r} \rightarrow \alpha = \cos^{-1} \frac{1}{r}$$

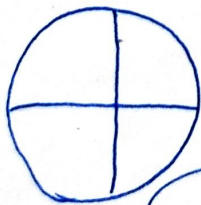
~~sin~~



$$\cos \alpha = -\frac{\sqrt{r}}{r}$$

$$AB = \sqrt{1 + 1 - 2 \times 1 \times \frac{\sqrt{r}}{r}} = \sqrt{2 + \frac{\sqrt{r}}{r}}$$

3



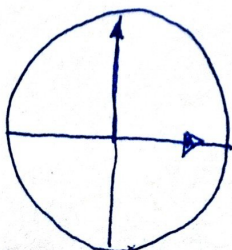
$$r: \epsilon_0$$

$$\frac{\pi}{4} \times \frac{11.0}{\pi} = r$$

$$\frac{r}{11.0} = \epsilon_0$$

$$\frac{11.0}{\epsilon_0 \min} = r$$

4



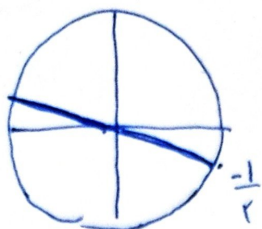
$$l_{\min} \rightarrow \frac{r}{11.0} = \epsilon_0$$

$$r + \epsilon_0 = 11.0$$

$$r + \epsilon_0 = 11.0$$

$$r + \epsilon_0 = 11.0$$

(2)



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

$$-a < rm - r \leq 1$$

$$1 \leq rm \leq 1+r \rightarrow \boxed{0 < m \leq 1}$$

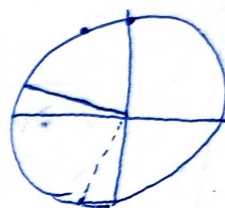
if $r < 1$

(3)

$$\tan \alpha = \frac{1}{r} \quad \left\{ \begin{array}{l} \sin = \frac{1}{\epsilon} \\ \cos = 1 \end{array} \right.$$

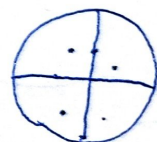
$$\frac{1 + \frac{-k}{\epsilon}}{-1 + \frac{-1}{r}} = -1 \rightarrow 1 - \frac{k}{\epsilon} = -\frac{1}{\epsilon}$$

$$\frac{-k}{\epsilon} = -\frac{1+r}{\epsilon} \rightarrow k = 1+r$$



(4)

$$\frac{\tan \alpha + \cot \alpha}{\tan \alpha - \cot \alpha} = \frac{r \cot \alpha}{-\tan \alpha}$$



(1)

$$\frac{r}{a} \times \frac{\pi}{a} = \frac{r\pi}{a^2}$$

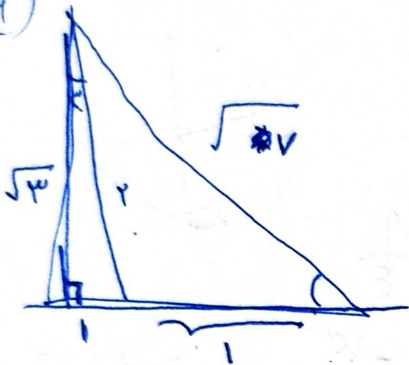
$$\frac{r}{a} \times \frac{\pi}{a} = \frac{r\pi}{a^2}$$

$$\frac{S_A}{S_B} = \left(\frac{r}{a} \right)^2 = \frac{1}{\epsilon}$$

$$\frac{r_A}{r_B} = \frac{1}{\epsilon} = \frac{r}{a}$$

Chaitin

9

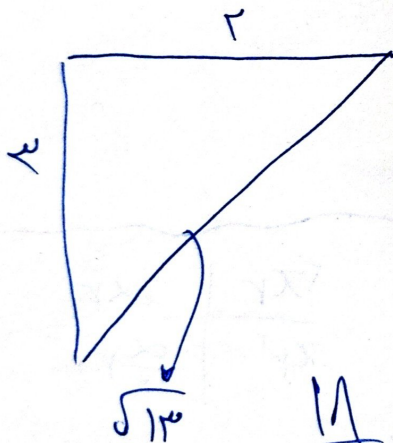


$$\frac{1}{r} \sqrt{r} \times \text{angle} = \sqrt{3} \quad r-1=1$$

$$\sin C = \frac{\sqrt{3}}{r} \quad r \sin C = \sqrt{3}$$

$$r \times \frac{\sqrt{r}}{\sqrt{r}} \times \frac{1}{\sqrt{r}} = \frac{r\sqrt{r}}{\sqrt{r}} = \frac{r\sqrt{r}}{r} = \sqrt{r}$$

1.



$$\frac{\theta}{r} = 9$$

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

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

$$\frac{1}{r} \sin \alpha \sqrt{1+r^2} \sqrt{r} = \frac{\theta}{r}$$

$$\sin = \frac{\theta}{1+r}$$