

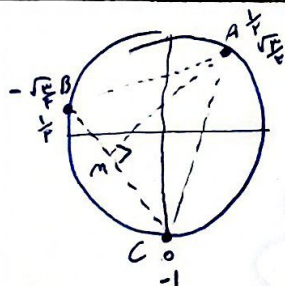
$$\frac{\frac{AB}{\sin \alpha}}{\frac{AC}{\sin \alpha}} = \frac{AB}{AC} = \frac{9\sqrt{r}}{9} = \sqrt{r}$$

$$\frac{BC}{\sin 90^\circ} = \frac{AC}{\sin \alpha} \rightarrow \frac{r}{1} = \frac{AC}{\sin \alpha}$$

$$\frac{BD}{\sin 60^\circ} = \frac{AB}{\sin(\pi - \alpha)} \rightarrow \frac{r}{\frac{\sqrt{3}}{2}} = \frac{AB}{\sin \alpha}$$

$$\frac{BD}{\sin \alpha} = \frac{AB}{\sin(\pi - \alpha)} \rightarrow \frac{r}{\frac{r}{\sqrt{r}}} = \frac{AB}{\sin \alpha}$$

طبق قانون $\sin \theta$:



$$y = -\sqrt{3}x - 1$$

$$\frac{\frac{1}{x} + 1}{-\frac{\sqrt{x}}{x}}, \quad \frac{\frac{x}{x}}{-\frac{\sqrt{x}}{x}}, \quad -\sqrt{x} \quad ; \text{BC bind}$$

حاصله خط AM ، $\vec{AM}$ از A به M بردار می کشیم و محاسبه می کنیم

$$S = \frac{1}{4} |\alpha_A(y_B - y_C) + \alpha_B(y_C - y_A) + \alpha_C(y_A - y_B)|$$

$$S = \frac{1}{4} |\frac{1}{4}(\frac{1}{4} - 1) + -\sqrt{\frac{3}{4}}(-1 - \sqrt{\frac{3}{4}}) + 0| = \frac{1}{4} |\frac{1}{4} + \sqrt{\frac{3}{4}} + \frac{3}{4}| = \frac{1 + \sqrt{3}}{4}$$
 (1)

$$s = \frac{1}{r} \left| \frac{1}{4}(1 - 11) + -\sqrt{5}(-1 - \sqrt{5}) + 0 \right| = \frac{1}{r} \left| \frac{1}{4} + \sqrt{5} + \frac{5}{4} \right| = \boxed{\frac{r + \sqrt{r}}{4}}$$

$AC = \sqrt{\left(\frac{1}{4}\right)^2 + \left(\frac{\sqrt{3}}{4}\right)^2} = \sqrt{\frac{1}{16} + \frac{3}{16}} = \sqrt{\frac{4}{16}} = \sqrt{\frac{1}{4}} = \frac{1}{2}$
 $BC = \sqrt{\left(\frac{\sqrt{3}}{4}\right)^2 + \left(\frac{1}{4}\right)^2} = \sqrt{\frac{3}{16} + \frac{1}{16}} = \sqrt{\frac{4}{16}} = \sqrt{\frac{1}{4}} = \frac{1}{2}$
 $AB = \sqrt{\left(\frac{1}{4} - \frac{\sqrt{3}}{4}\right)^2 + \left(\frac{\sqrt{3}}{4} - \frac{1}{4}\right)^2} = \sqrt{\frac{1}{16} + \frac{3}{16} + \frac{3}{16} + \frac{1}{16}} = \sqrt{\frac{8}{16}} = \sqrt{\frac{1}{2}} = \frac{\sqrt{2}}{2}$

$$B_c = \sqrt{\left(\frac{r}{r_0}\right)^2 + \left(\frac{r}{r_0}\right)^2} \cdot \sqrt{\frac{r_0}{r}} \cdot \sqrt{r} \quad \rho_z = \sqrt{r + r + \sqrt{r_0 r}}$$



$$s = \frac{1}{r} AC \times AB \times \sin \pi \rightarrow \frac{1}{r} \propto \log_r^{14} \times \log_r^{24} \times \frac{1}{r}$$

$$\rightarrow \frac{1}{r} \propto \frac{\log 14}{\log r} \times \frac{\log 24}{\log r} \rightarrow \frac{1}{r} \propto \frac{\log}{\log r} \times \frac{\log}{\log r}$$

$$[5, 2, 3]$$

$$r^2 - r^2 \sin^2 \alpha = (r \sin^2 \alpha - 1) = 1$$

$$\sin^2 \theta_2 (1 - \cos^2 \theta_1)$$

$$rc \cdot s^f a - c \cdot s^r a - (1 - c \cdot s^r a) (\dot{r} \cdot (1 - c \cdot s^r a) - 1) = 1$$

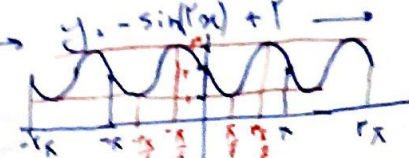
$$rc \cdot s^r a - c \cdot s^r a - (1 - c \cdot s^r a)(1 - rc \cdot s^r a) = 1 \rightarrow$$

$$\cancel{rc} s^2 - \cancel{cs} \alpha - 1 + \cancel{rc} s^2 \alpha - \cancel{rc} s^2 \alpha \cdot 1 \rightarrow \cancel{rc} s^2 \alpha - 1 = 1$$

$$C \cdot \sin \alpha = \pm 1 \rightarrow \sin^2 \alpha = \cancel{r} \sin^2 \alpha \rightarrow \textcircled{2} \quad \sin^2 \alpha = 0$$

$\sin \alpha \approx 0$

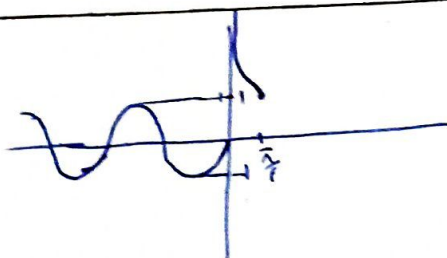
$y = -r \sin \alpha \cos x + r \rightarrow y = -\sin(r\alpha) + r \rightarrow T = \frac{r\pi}{r} = \pi$



$y = r \cos(\alpha + \frac{1}{r})\pi + 1 \rightarrow r \cos(\pi\alpha + \frac{\pi}{r}) + 1$



$f(x) = \begin{cases} c + x & 0 < x < \frac{\pi}{r} \\ \sin x & x \leq 0 \end{cases}$
 $R_f = [-1, +\infty)$



$f(x) = a + \underbrace{b \sin(cx)}_{\frac{b}{r} \sin(r\alpha)} = a + \frac{b}{r} \sin(r\alpha)$

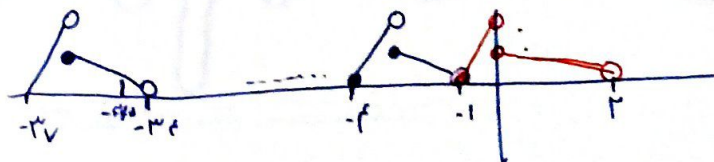
$T = \frac{\pi}{r} - \frac{\pi}{r} = \frac{0\pi}{r} - \frac{\pi}{r} = \frac{r\pi}{r} \rightarrow \frac{r\pi}{r} = \frac{r\pi}{rc} \sim \frac{r\pi}{r} = \frac{\pi}{rc} \rightarrow \boxed{c = \frac{1}{r}}$

$a + \frac{b}{r} = r \sim \boxed{a = r}, \boxed{b = r} \sim \frac{r \times \frac{1}{r}}{r} = a$
 $a - \frac{b}{r} = 0 \sim \boxed{a = r}, \boxed{b = r} \sim \frac{r \times \frac{1}{r}}{r} = a$

$\frac{r\pi}{b} = \pi \sim \boxed{b = r}$

$a + c = r \sim \boxed{c = 1}, \boxed{a = r}$
 $a + c = -r \sim \boxed{c = -1}, \boxed{a = -r}$

~~$\tan \alpha = \frac{y}{x} = \frac{r \sin \alpha}{r \cos \alpha} = \tan \alpha$~~
 $-r \cos \alpha - 1 = 0 \sim \cos \alpha = -\frac{1}{r} \sim \sin \alpha = \frac{\sqrt{1 - \frac{1}{r^2}}}{r} \sim \frac{\sin \alpha}{\cos \alpha} = \frac{\frac{1}{r}}{-\frac{1}{r}} = -1$



$y = -\frac{1}{r}x + 1$
 $y = -\frac{1}{r}x + 1 = 1, r$