

$\frac{F\pi}{|F|} = \pi$ $B \rightarrow x=0$ $\tan\left(\frac{\pi}{F}\right) = 1$ $\rightarrow \frac{\pi}{F}$

$\frac{\pi x 1}{F} = \frac{\pi}{F} = S$

$$\frac{F}{9} - \frac{r}{F} \sin \alpha - \frac{1}{F} \cos \alpha = 0$$

(1 - sin α)

$$\frac{F \times F}{9} - \frac{r}{F} \sin \alpha - \frac{1}{F} \cos \alpha + \frac{1}{F} \sin^2 \alpha = 0$$

$$\frac{F}{9} - \frac{r}{F} \sin \alpha + \frac{1}{F} \sin^2 \alpha = 0$$

$$\log \left(\frac{\sin \alpha}{-\cos \alpha} \right) = \log 3$$

$$\frac{\sin \alpha}{-\cos \alpha} = 3 \quad \tan \alpha = -3$$

$$\sin \alpha = -\frac{3}{\sqrt{10}} \quad \cos \alpha = \frac{1}{\sqrt{10}}$$

$$\sin^2 \theta + 1 - \sin^2 \theta = \frac{c}{a}$$

$$\cos^2 \theta + \sin^2 \theta = \frac{c}{a}$$

$$\cos^2 \theta + \sin^2 \theta = \frac{c}{a}$$

$$\cos^2 \theta + \sin^2 \theta = \frac{c}{a}$$

$$\frac{\sin \alpha (r + \cos \alpha)}{r (\sin^2 \alpha)} < 0$$

$$\sin \alpha < 0$$

$$\frac{\sin \alpha}{\cos \alpha} - \frac{1}{\cos \alpha} > 0$$

$$\frac{-\cos^2 \alpha}{\cos \alpha} = -\cos \alpha$$

$$\cos \alpha < 0$$

$$\frac{r}{\sin x} = \frac{-r}{\cos x}$$

$$r \cos x = -r \tan x$$

$$\cos x = \frac{-r}{r} \sin x \quad \frac{-r}{r} \frac{r}{\sqrt{1-r^2}} = \frac{1}{\sqrt{1-r^2}}$$

$$\frac{r}{F} \sin^2 x + \sin^2 x = 1$$

$$\frac{r}{F} \sin^2 x = 1$$

$$\sin x = \frac{F}{\sqrt{1-r^2}}$$

$$\tan x + \cot x = \frac{1}{\frac{\sin x \cos x}{\sqrt{1-r^2}}} = \frac{1}{\frac{-r}{\sqrt{1-r^2}}}$$

$$\frac{\sqrt{1+\sin 2\alpha}}{\sin \alpha + \sin \beta}$$

$$= \frac{\sqrt{1+\cos 2\alpha} \cdot r \cos^2 \alpha}{-r \sin^2 \alpha \cos \alpha} = \frac{\sqrt{1+\cos 2\alpha}}{r \sin^2 \alpha \cos \alpha} = \sqrt{r}$$

$$r \sin \alpha = \sin(\alpha_0 + \alpha) = \sin \alpha_0 \cos \alpha + \cos \alpha_0 \sin \alpha$$

$$r \sin \alpha = \sin \alpha_0 \cos \alpha + \cos \alpha_0 \sin \alpha$$

$$1 - r \sin^2 \alpha = \cos^2 \alpha$$

$$1 - r \sin^2 \alpha = \cos^2 \alpha$$

$$\frac{1 - \tan^2 \alpha}{1 + \tan^2 \alpha} = \cos^2 \alpha$$

$$r \cos^2 \alpha - (\sin^2 \alpha + \cos^2 \alpha) = \cos^2 \alpha - \sin^2 \alpha = \cos 2\alpha$$

$$\frac{\cos 2\alpha \times \cos \alpha_0 \times \cos \alpha_0 \times \sin \alpha_0 \times \frac{1}{r} \sin \alpha_0}{\sin \alpha_0} = \frac{\frac{1}{r} \left(\frac{1}{r} \sin \alpha_0 \right) \times \cos \alpha_0}{\sin \alpha_0} = \frac{\frac{1}{r} \times \frac{1}{r} \times \frac{1}{r} \times \sin \alpha_0}{\sin \alpha_0}$$

$$= \frac{1}{r} \frac{\cos \alpha_0}{\sin \alpha_0} = \frac{1}{r} \tan \alpha_0$$

$$\sin x + r \cos x = r$$

$$\cos^2 \alpha - \sin^2 \alpha - 1 + \cos \alpha = 1 \cos^2 \alpha - \cos - 1 + \cos \alpha = 1$$

$$B \sin \alpha = C$$

$$\sin \alpha = r - r \cos$$

$$\sin^2 \alpha + \cos^2 \alpha = 1$$

$$r - r \cos + r \cos^2 = 1 \rightarrow 1 \cos^2 - 1 \cos + r = 0$$

$$r \sin B \sin C = \cos^2 A$$

$$B = r r$$

$$1 \cos - 1 \cos = \cos A$$

$$\cos^2 A = \frac{1 + \cos A}{r}$$

$$A + B + C = 180^\circ \rightarrow A = 180^\circ - B - C$$

$$\cos A = \cos(180^\circ - B - C) = -\cos(B + C)$$

$$1 - \cos B \cos C + \sin B \sin C = \sin B \sin C$$

$$\sin B \sin C + \cos B \cos C = 1 \rightarrow \cos(B - C) = 1 \rightarrow B = C = r$$