

B بازوی

$$\cot \alpha = \frac{\cos \alpha}{\sin \alpha}$$

$$\frac{1}{|\cos \alpha|} - \frac{\sin \alpha}{\cos \alpha} = \frac{1 - \sin \alpha}{\cos \alpha}$$

تایید اول (1)

$$\alpha < \frac{1}{2}$$

$$\sin \alpha = \frac{m-1}{f}$$

$$-\frac{m}{f} < \alpha < \frac{m}{f}$$

$$-\frac{1}{f} < \sin \alpha < 1$$

$$-\frac{1}{f} < \frac{m-1}{f} < 1$$

$$m = (-1 \quad \omega)$$

$$f < r - r_m$$

$$r_m < -r$$

$$m < -1$$

$$m-1 < f$$

$$m < d$$

(2)

$$\tan \alpha \cot \alpha = -\gamma$$

$$\frac{r_m}{f} < \alpha < \frac{r}{f}$$

$$\frac{1}{\sin \alpha \cos \alpha} = \frac{1}{(\sin \alpha \cos \alpha) (\sin \alpha \cos \alpha + \sin \alpha \cos \alpha)}$$

$$\frac{1}{\sin \alpha \cos \alpha} = -\gamma$$

$$\sin \alpha \cos \alpha = -\frac{1}{\gamma}$$

$$(\sin \alpha \cos \alpha)^2 = \sin^2 \alpha \cos^2 \alpha = \gamma^2 \sin^2 \alpha \cos^2 \alpha$$

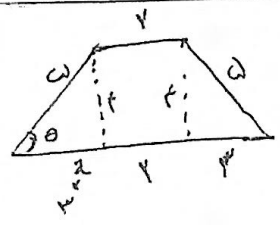
- $\frac{1}{\gamma^2}$ درست است زیرا مقدار (cos) بزرگتر از منفی است

$$\sin \alpha \cos \alpha = \pm \frac{\sqrt{\gamma}}{\gamma}$$

$$\frac{1}{(-\frac{\sqrt{\gamma}}{\gamma} \pm \frac{\sqrt{\gamma}}{\gamma})}$$

$$\frac{-9}{4\sqrt{4}} = \left(-\frac{3\sqrt{4}}{4} \right)$$

(3)



$$\cos \theta = \frac{a}{b} = 0.9 \Rightarrow a = 0.9b$$

$$a + h^2 = b^2$$

$$h = f$$

$$S = \frac{(a+b) \times h}{2} = 20$$

(4)

$$\tan(\gamma \omega) \tan(-\gamma \omega) - \sin(\gamma \omega) \cos(\gamma \omega) = K \cos^2(\omega)$$

$$\tan\left(\frac{\gamma \omega}{\gamma} + 10\right) \cdot \tan(10 - \gamma) - \sin(10) \cos\left(\frac{\gamma \omega}{\gamma} - 10\right)$$

$$-\cot(10) \cdot \tan(10) + \sin(10) \times \sin(10)$$

$$-1 + \sin^2(10) = -\cos^2(10)$$

$$K = -1$$

(5)

$$\sqrt{2} \cos(\gamma \omega) \times \sin\left(\frac{\gamma \omega}{\gamma} - \gamma\right) - \sqrt{2} \sin(\gamma \omega) \cos(m - \gamma \omega)$$

$$+ \frac{\gamma}{\gamma} \times \cos(\gamma \omega) + \cos(\gamma \omega) = \frac{d}{\gamma} \cos(\gamma \omega) + \cos(\gamma \omega)$$

$$\frac{d}{\gamma} \cos(\gamma \omega)$$



$$\frac{\frac{d}{\gamma} \cos(\gamma \omega)}{\cos(\gamma \omega)} = \left(\frac{d}{\gamma} \right)$$

(6)

$$f(a) = \frac{1}{\sqrt{r}} \cos^r(\frac{a}{\sqrt{r}}) \cdot \cos^r(\frac{a}{\sqrt{r}}) \cos^r(\frac{a}{\sqrt{r}}) \cos^r(\frac{a}{\sqrt{r}})$$

$$\Lambda(1 + \cos(\frac{a}{\sqrt{r}}) \cdot \cos^r(\frac{a}{\sqrt{r}}) \cdot \cos^r(\frac{a}{\sqrt{r}}) \cdot \cos^r(\frac{a}{\sqrt{r}})) = \Lambda(1 + \cos(\frac{a}{\sqrt{r}})) \cdot \cos^r(\frac{a}{\sqrt{r}}) \cdot \cos^r(\frac{a}{\sqrt{r}}) \cdot \cos^r(\frac{a}{\sqrt{r}})$$

$$\propto \frac{\sqrt{r}}{\sqrt{r}} \propto \frac{\sqrt{r}}{\sqrt{r}} \propto \frac{1}{\sqrt{r}} \propto \frac{1}{\sqrt{r}}$$

$$\frac{\sqrt{r}}{\sqrt{r}}$$

$$\frac{1 - \sin(a)}{1 + \sin(a)} = r$$

$$r + r \sin(a) = 1 - \sin(a)$$

$$r \sin(a) = -r$$

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

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

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

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

$$\tan\left(\frac{a}{\sqrt{r}}\right) = \frac{\sin(a)}{1 + \cos(a)} = \frac{-\frac{r}{r}}{\frac{1}{r}} = -r$$

$$\frac{\sin(\theta)}{1 - \cos(\theta)} + \frac{1 + \cos(\theta)}{\sin(\theta)} = \frac{r \sin(\frac{\theta}{\sqrt{r}}) \cos(\frac{\theta}{\sqrt{r}})}{r \sin^2(\frac{\theta}{\sqrt{r}})} + \frac{r \cos^2(\frac{\theta}{\sqrt{r}})}{r \sin(\frac{\theta}{\sqrt{r}}) \cos(\frac{\theta}{\sqrt{r}})} = \frac{r \cos(\frac{\theta}{\sqrt{r}})}{r \sin(\frac{\theta}{\sqrt{r}})} = r \cot\left(\frac{\theta}{\sqrt{r}}\right)$$

$$\Rightarrow K = r$$

$$\sin(a) = \frac{\sqrt{r}}{1}$$

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

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

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

$$\cos\left(\frac{11\pi}{r} + \alpha\right) = \cos\left(\frac{11\pi}{r} + \alpha\right) = \cos\left(\frac{11\pi}{r}\right) \cos(\alpha) - \sin\left(\frac{11\pi}{r}\right) \sin(\alpha)$$

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

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