

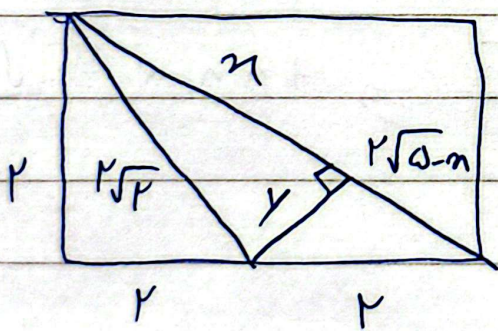
عرفان حقیقی بازدهم بسیر A

$$\frac{1}{\mu} \times \sqrt{3} \times \frac{1}{2} \times \sin \alpha = \frac{1.5}{1.} \Rightarrow \sqrt{3} \times \sin \alpha = \frac{1.5}{1.} \quad (1)$$

$$\sin \alpha = \frac{\mu}{2\sqrt{3}} \Rightarrow \sin \alpha = \frac{\sqrt{3}}{2}$$

$\frac{1}{2}$  : بیشترین مقدار  
 $\frac{\sqrt{3}}{2}$  : کمترین مقدار

$$\frac{1.5}{\frac{1}{2}} = 2 \text{ برابر}$$



$$y^2 = n^2 - \Lambda$$

$$y^2 = n^2 - 2\sqrt{5}n + 1.5$$

$$n^2 - \Lambda = n^2 - 2\sqrt{5}n + 1.5 \Rightarrow 2\sqrt{5}n = 1.5 \Rightarrow n = \frac{1.5\sqrt{5}}{2}$$

$$y = \frac{2\sqrt{5}}{5} \quad \cot \alpha = \frac{n}{y} \Rightarrow \mu$$

date:

subject:

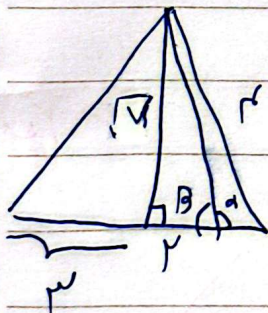
$$\cot \alpha = \frac{\cos \alpha}{\sin \alpha} = \frac{p}{m}$$

$$\tan^r \alpha = \frac{\sin^r \alpha}{\cos^r \alpha} = \frac{r \sin \alpha \cos \alpha}{\cos^r \alpha - \sin^r \alpha} = \frac{r}{m}$$

$$\frac{\cot \alpha}{\tan \alpha} = \frac{p}{r} \Rightarrow \frac{\cos \alpha}{\sin \alpha} = \frac{1 - r \sin^r \alpha}{r \sin \alpha}$$

$$r - r \sin^r \alpha = r \sin^r \alpha$$

$$\sin^r \alpha = \dots \Rightarrow \cos^r \alpha = \dots \cot \alpha = \sqrt{\frac{r \Delta}{r}} = m$$



$$|\tan \alpha| = |\tan \beta|$$

$$\tan \beta = \frac{\sqrt{v}}{r} \Rightarrow \tan \alpha = \frac{\sqrt{v}}{r}$$

$$r \sin^n m + 1 - \sin^n m = \frac{r}{\mu} \Rightarrow \sin^n m = \frac{1}{\mu} \quad (\omega)$$

$$\Rightarrow 1 - \sin^n m = \cos^n m \Rightarrow \cos^n m = \frac{r}{\mu}$$

$$\tan^n = \frac{1}{\mu}$$

$$\frac{\sin^n \alpha - r \sin^n \alpha + r}{1 + \cos^n} = \frac{\cos^n \alpha - r \cos^n \alpha + r}{1 + \sin^n \alpha} \quad (\omega)$$

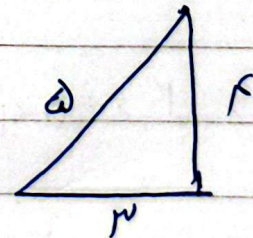
$$\Rightarrow \frac{(\sin^n \alpha - r)}{1 + \cos^n \alpha} = \frac{(\cos^n \alpha - r)}{1 + \sin^n \alpha} \Rightarrow \frac{(\cos^n \alpha + 1)}{1 + \cos^n \alpha} = \frac{(\sin^n \alpha + 1)}{1 + \sin^n \alpha}$$

$$\Rightarrow \cos^n \alpha + 1 - \sin^n \alpha - 1 = \cos^n \alpha - \sin^n \alpha$$

$$A = \sin \left( r\pi + \frac{\pi}{r} + \alpha \right) \cos \left( r\pi - \frac{\pi}{r} - \alpha \right) + \tan \left( \frac{r\pi}{r} - \alpha \right) \quad (\omega)$$

$$\Rightarrow A = (\cos \alpha) (-\sin \alpha) + \cot \alpha$$

$$\sin \alpha = -\frac{r}{\omega} \quad \cos \alpha = -\frac{\mu}{\omega} \quad \Leftarrow$$



$$A = \frac{-r}{\omega} + \frac{\mu}{r} = \frac{-r\omega + \mu r}{r\omega} = \frac{\mu}{\omega}$$

$$\sqrt{r} \sin n - \sqrt{r} \cos n = \sqrt{r} (\sin n - \cos n) \quad \wedge$$

$$\Rightarrow \sqrt{r} \left( \sqrt{r} \sin \left( n - \frac{\pi}{4} \right) \right) \Rightarrow r \sin \left( n - \frac{\pi}{4} \right)$$

$$\Rightarrow r \cos \frac{\pi}{4} + r \sin \left( -\frac{\pi}{4} \right) = r \times \frac{1}{\sqrt{2}} + r \times \left( -\frac{1}{\sqrt{2}} \right) = \frac{1}{\sqrt{2}}$$

$$\sin \alpha = \frac{\frac{r}{r}}{\frac{1\sqrt{2}}{1\sqrt{2}}} \quad , \quad \cos \alpha = \frac{\frac{1\sqrt{2}}{1\sqrt{2}}}{\frac{1\sqrt{2}}{1\sqrt{2}}} \quad , \quad \tan \alpha = \frac{\frac{r}{r}}{\frac{1\sqrt{2}}{1\sqrt{2}}} \quad (9)$$

$$\frac{\tan \alpha - \sin \alpha}{\sin \alpha - \cos \alpha} = \frac{\frac{1\sqrt{2}}{1\sqrt{2}} - \frac{1\sqrt{2}}{1\sqrt{2}}}{\frac{1\sqrt{2}}{1\sqrt{2}} - \frac{1\sqrt{2}}{1\sqrt{2}}} \Rightarrow -\frac{1\sqrt{2}}{1\sqrt{2}}$$

$$r \sin \alpha < r \sin \alpha \cos \alpha \Rightarrow r \sin \alpha - r \sin \alpha \cos \alpha < 0 \quad (1)$$

$$\Rightarrow r \sin \alpha \left( \underbrace{1 - \cos \alpha}_{+} \right) < 0 \Rightarrow \sin \alpha < 0$$

$$\frac{\cos \alpha}{\sin^2 \alpha} > 0 \Rightarrow \cos > 0 \quad \text{كذلك } \sin > 0 \text{ و } \cos > 0$$