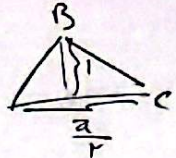


$y = \tan(-\alpha + \frac{\pi}{r}) \rightarrow x = y \cdot \tan \frac{\pi}{r} + 1 \Rightarrow B(-1)$
 $T = \frac{a}{|a|} \cdot \frac{a}{r} \Rightarrow AC = \frac{a}{r}$

14



$\tan \frac{\pi}{r}$

$$y = n^r - (g\alpha)x - \frac{1}{r} \frac{c g^r}{(1-g^r)} \rightarrow \frac{r}{g} - \frac{r g \alpha}{r} - \frac{1+g^r}{r} = 0$$

$$14 - r^r g \alpha - 1 + g g^r \alpha \rightarrow g g^r \alpha - r^r g \alpha + 1 = 0 \rightarrow g \alpha = \frac{r^r \pm \sqrt{r^{2r} - 4r^r}}{2r^r}$$

$$g \alpha \int = \frac{r^r}{1n} x \Rightarrow 1 + \tan^r = \frac{1}{g^r} \cdot \frac{1}{\frac{1}{r}} = \frac{r}{g}$$



$$\lg g \alpha - \lg \alpha = \lg \frac{g \alpha}{\alpha} = \lg -\tan \alpha = r \rightarrow \tan \alpha = -r$$

$$\rightarrow \frac{r}{1} \rightarrow \frac{g \alpha}{\alpha} = \frac{r}{1} \rightarrow g \alpha - \alpha = \frac{r}{1}$$

$$g^r + c g^r = \frac{r}{g} \rightarrow g^r + c g^r = \frac{r}{g} \rightarrow g^r = \frac{r}{g} - c g^r \rightarrow g^r (1 - c) = \frac{r}{g} - c g^r$$

$$c g^r + g^r = c g^r + \frac{r}{g} - c g^r = \frac{r}{g} \rightarrow c g^r = \frac{r}{g} - g^r \rightarrow c g^r = \frac{r}{g} - g^r$$

$$\frac{r g + g c}{r (1 - c g^r)} = \frac{g (r + c g)}{r g^r} < 0 \Rightarrow g \alpha < 0$$

$$g \tan - \frac{1}{g} > 0 \rightarrow \frac{g^r - 1}{g} > 0 \Rightarrow g^r > 1 \Rightarrow c g \alpha < 0$$

$$\frac{r}{g} + \frac{r}{c g} = 0 \rightarrow \frac{r g + r c g}{g c g} = 0 \rightarrow r g + r c g = 0 \rightarrow \tan \alpha = -\frac{r}{g} \rightarrow \cot \alpha = -\frac{g}{r}$$

$$\tan \alpha + \cot \alpha = -\frac{r}{g} - \frac{g}{r} = -\frac{r^2 + g^2}{r g}$$

$$\sin \alpha + \sin \alpha = \sin(\alpha + \alpha) + \sin(\alpha - \alpha) =$$

$$\sin \alpha \cdot c \cdot \sin \alpha + \sin \alpha \cdot c \cdot \sin \alpha + \sin \alpha \cdot c \cdot \sin \alpha - \sin \alpha \cdot c \cdot \sin \alpha = r \left(\frac{1}{r} \right) c \cdot \sin \alpha = c \cdot \sin \alpha$$

$$\frac{r c \cdot \sin \alpha}{c \cdot \sin \alpha} = \boxed{r}$$

