

$$\sqrt{r} \cos(\pi) \sin(\pi) - \sqrt{r} \sin(\pi) \cos(\pi) = k \cos^2 \pi$$

$$\sqrt{r} \cos(\pi) \sin(\pi) + \cos \pi = \frac{0}{r} - \cos \pi \rightarrow k = \frac{0}{r}$$

$$f(\pi) = 14 \cos^2(\pi) \cos^2(\pi) \cos^2(\pi) \cos^2(\pi) \quad f\left(\frac{\pi}{4}\right) = ? \quad \checkmark$$

$$\frac{\sin^2(\pi)}{\sin^2(\pi)}$$

$$\sin^2 \alpha \times \cos^2 \alpha = \sin^2 \alpha \times \cos^2 \alpha = \sin^2 \alpha \times \cos^2 \alpha =$$

$$f(\pi) = \frac{\sin^2 \pi \cos^2 \pi}{\sin^2(\pi)} = \frac{\sin^2\left(\frac{\pi}{4}\right)}{\sin^2\left(\frac{\pi}{4}\right)} = \frac{\left(\frac{1}{\sqrt{2}}\right)^2}{\left(\frac{1}{\sqrt{2}}\right)^2} = \frac{1/2}{1/2} = 1$$

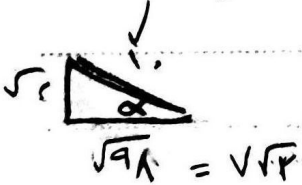
$$\frac{1 - \sin x}{1 + \sin x} = \epsilon \rightarrow 1 - \sin x = \epsilon + \sin x \rightarrow \sin x = \frac{\epsilon}{2}$$

$$\tan \frac{x}{2} = \frac{\sin x}{1 + \cos x} = \frac{\frac{\epsilon}{2}}{1 + \frac{1}{2}} = \frac{\frac{\epsilon}{2}}{\frac{3}{2}} = \frac{\epsilon}{3}$$

$$\frac{\sin \theta}{1 - \cos \theta} \rightarrow \frac{1 + \cos \theta}{\sin \theta} = k \cot \frac{\theta}{2}$$

$$\cot \frac{\theta}{2} + \cot \frac{\theta}{2} = r \cot \frac{\theta}{2} \rightarrow k = r$$

$$\sin \alpha = \frac{\sqrt{r}}{1} \quad \cos\left(\frac{11\pi}{2} + \alpha\right) = \cos\left(\frac{3\pi}{2} + \alpha\right)$$



$$= \cos \frac{3\pi}{2} \cos \alpha - \sin \frac{3\pi}{2} \sin \alpha$$

$$= \frac{+\sqrt{r}}{1} \times \frac{+\sqrt{r}}{1} - \frac{-\sqrt{r}}{1} \times \frac{+\sqrt{r}}{1} = +\frac{0}{1}$$