

$$A = \sqrt{y} \cos(\pi/2) \sin(\pi/2) - \sqrt{x} \sin(\pi/2) \cos(\pi/2) = k \cos(\pi/2) \quad k=5$$

$$-\cos(\pi/2 - \pi/2) = -\cos \pi = -\frac{\sqrt{y}}{x} \quad A = \frac{y}{x} \cos \pi$$

$$\sin(\pi/2 - \pi/2) = \sin \pi = \frac{\sqrt{y}}{x}$$

$$\sin(\pi/2 - \pi/2) = -\sin \pi \Rightarrow \cos(\pi - \pi) = \cos \pi$$

$$-\cos(\pi/2 - \pi/2) = -\cos \pi$$

$$f(x) = 14 \cos^2(\pi/4) \cos^2(\pi/4) \cos^2(\pi/4) \cos^2(\pi/4) \Rightarrow f(\pi/4) = 5$$

$$\cos^2(\theta) = \frac{1 + \cos \theta}{2}$$

$$\frac{1 + \cos(\pi/4)}{2}$$

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$$\hookrightarrow \cos^2(\pi/4) = \frac{1 + \cos(\pi/4)}{2} = \frac{(1 + \frac{\sqrt{2}}{2})^2}{2} = \frac{4 + 2\sqrt{2} + 1}{4} = \frac{5 + 2\sqrt{2}}{4}$$

$$\tan \frac{\pi}{2} = 5$$

$$\frac{1 - \sin \alpha}{1 + \sin \alpha} = \epsilon$$

$$\frac{\pi}{2} < \alpha < \frac{3\pi}{2}$$

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

$$\hookrightarrow 1 - \sin \alpha = \epsilon + \epsilon \sin \alpha \Rightarrow -\pi = \sin \alpha$$

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

$$\frac{9}{16} + \cos^2 \alpha = 1 \Rightarrow \cos^2 \alpha = \frac{7}{16}$$

$$\frac{-\frac{3}{4}}{1 + (-\frac{3}{4})} = -\frac{3}{1}$$

$$\frac{\sin \theta}{1 - \cos \theta} + \frac{1 + \cos \theta}{\sin \theta} = k \cot \frac{\theta}{2} \quad k=5$$

$$k=5$$

$$\frac{\sin \theta}{1 - \cos \theta} = \frac{1 - \cos \theta}{\sin \theta} = \tan \frac{\theta}{2}$$

$$\hookrightarrow \cot \frac{\theta}{2} + \cot \frac{\theta}{2} = 5 \cot \frac{\theta}{2}$$

$$\cos(\frac{11\pi}{6} + \alpha) = 5$$

$$\sin \alpha = \frac{\sqrt{y}}{10} \quad \alpha \Rightarrow \text{angle}$$

$$\sin^2 \alpha + \cos^2 \alpha = 1 \Rightarrow \frac{y}{100} + \cos^2 \alpha = 1 \Rightarrow \cos^2 \alpha = \frac{99}{100} = \frac{3\sqrt{11}}{10}$$

$$\hookrightarrow \cos(\frac{11\pi}{6} + \frac{11\pi}{6} + \alpha) = \cos(\frac{11\pi}{6}) \cos \alpha - \sin(\frac{11\pi}{6}) \sin \alpha$$

$$\Rightarrow (-\frac{\sqrt{3}}{2})(-\frac{\sqrt{3}}{2}) - (\frac{1}{2})(\frac{\sqrt{3}}{2}) = \frac{3}{4} - \frac{\sqrt{3}}{4} = \frac{3 - \sqrt{3}}{4}$$

$$1) \operatorname{cot} \alpha = \frac{\cos \alpha}{\sin \alpha} = \frac{\cos \alpha}{|\sin \alpha|} \rightarrow |\sin \alpha| = \sin \alpha \rightarrow \sin \alpha > 0$$

$$\frac{1}{\sqrt{\cos^2 \alpha}} - \frac{1}{\operatorname{cot} \alpha} = \frac{1 - \sin \alpha}{|\cos \alpha|} \rightarrow \cos \alpha = |\cos \alpha| \rightarrow \cos \alpha > 0$$

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$$10) \cos\left(\frac{11\pi}{r} + \alpha\right) = -\left(\cos \alpha \cos \frac{\pi}{r} + \sin \alpha \sin \frac{\pi}{r}\right)$$

$$\rightarrow \frac{-\sqrt{r}}{r} (\cos \alpha + \sin \alpha) \quad \cos \alpha = \frac{-\sqrt{r}}{1.}$$

$$\hookrightarrow \frac{-\sqrt{r}}{r} \left(\frac{-\sqrt{r}}{1.} + \frac{\sqrt{r}}{1.} \right) = \frac{r}{\omega}$$