$$\sin\left(x + \frac{\pi}{4}\right) \cdot \cos\left(x + \frac{\pi}{4}\right) + \frac{\sqrt{3}}{2}\sin 2x = 2\cos^{2}x$$

$$\left[\frac{\pi}{3} + k\pi\right]$$

$$\left[\sinh\left(x + \frac{\pi}{4}\right) \cdot \cos\left(x + \frac{\pi}{4}\right) + \left[\cos\left(x + \frac{\pi}{4}\right) + \left(\cos\left(x + \frac{\pi}{4}\right)\right) + \left(\cos\left(x + \frac{\pi}$$

$$\left|\cos\left(2x+\frac{\pi}{4}\right)\right|<\frac{\sqrt{2}}{2}$$

$$\left[k\frac{\pi}{2} \le x \le \frac{\pi}{4} + k\frac{\pi}{2}\right]$$

$$-\frac{\sqrt{2}}{2} < \cos\left(2x + \frac{\pi}{4}\right) < \frac{\sqrt{2}}{2}$$

$$\frac{\pi}{4} + \kappa \pi < 2 \times + \frac{\pi}{4} < \frac{3}{4} \pi + \kappa \pi$$

$$K\pi < 2 \times < \frac{\pi}{2} + \kappa \pi$$

$$\kappa \frac{\pi}{2} < \times < \frac{\pi}{4} + \kappa \frac{\pi}{2}$$

$$\sin x \cdot \tan \frac{x}{2} = 2\cos^2 \frac{x}{2} - 2\cos^2 x$$

$$\left[\frac{\pi}{2} + k\pi; 2k\pi\right]$$

$$\frac{\times}{2}$$
 $\frac{\pi}{2}$ $+$ κ π

× + 1 +2KT

$$sin \times . \frac{1-con \times}{sin \times} = \frac{2}{2} \cdot \frac{1+con \times}{2} = 2 con^2 \times$$

$$2\cos x - 2\cos x = 0$$

$$2\cos x (\cos x - 1) = 0$$

$$\cos x = 0 \Rightarrow x = \frac{\pi}{2} + k\pi$$

$$2\cos x (\cos x - 1) = 0$$

$$\cos x = 1 \Rightarrow x = 2k\pi$$