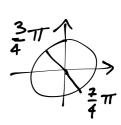
$$\sin\left(\frac{3}{4}\pi + x\right) + \cos\left(x - \frac{7}{4}\pi\right) = \sqrt{2}$$



$$\sin\frac{3}{4}\pi\cos x + \cos\frac{3}{4}\pi\sin x + \cos x\cos\frac{7}{4}\pi +$$

$$+\sin x\sin\frac{7}{4}\pi = \sqrt{2}$$

$$\frac{\sqrt{2}}{2}\cos x - \frac{\sqrt{2}}{2}\sin x + \frac{\sqrt{2}}{2}\cos x - \frac{\sqrt{2}}{2}\sin x = \sqrt{2}$$

$$(x) \times -\sin x = 1$$

$$\begin{cases} x - y = 1 \\ y = \sin x \end{cases}$$

$$\begin{cases} x - y = 1 \\ y + y = 1 \end{cases}$$

$$\begin{cases} x - y = 1 \\ (y + 1)^{2} + y = 1 \end{cases}$$

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$$\frac{1-\cos 2x}{\sin 2x} - \frac{\sin x}{1+\cos 2x} = 0$$

c.F.

$$\sin 2 \times \neq 0$$

$$2 \times \neq K\pi => \times \neq K_{\frac{\pi}{2}}$$

$$\frac{1-\cos 2x}{2\cos x \sin x} - \frac{\sin x}{1+2\cos x-1} = 0$$

$$\cos 2x \neq -1$$

$$2 \times \neq \pi + 2K\pi$$

$$\times \neq \frac{\pi}{2} + K\pi$$

$$\frac{1 - \left(1 - 2\sin^2 x\right)}{2\cos^2 x \sin x} = \frac{\sin x}{2\cos^2 x} = 0$$

$$\frac{1}{2\cos x \sin x} - \frac{\sin x}{2\cos^2 x} = 0$$

$$\frac{2\sin^2 x}{2\cos x \sin x} - \frac{\sin x}{2\cos^2 x} = 0$$

$$\frac{2 \sin \times \cos \times - \sin \times}{2 \cos^2 \times} = 0$$

$$Sin X = 0$$
 $X = KTT N.A.$

$$\sin \times \left(2\cos \times -1\right) = 0$$

$$Con x = \frac{1}{2}$$

$$X = \pm \frac{\pi}{3} + 2k\pi$$

$$\frac{\cos 8x - \cos 2x}{\cos (\pi - 4x)} = 1$$

FORMULA DI PROSTUFFRESI

$$\cos p - \cos q = -2\sin\frac{p+q}{2}\sin\frac{p-q}{2}$$

$$C.E.$$

$$C \to 4 \times \neq 0 \Rightarrow 4 \times \neq \frac{\pi}{2} + K\pi \Rightarrow \times \neq \frac{\pi}{8} + K\pi \Rightarrow C.E.$$

$$\cos 8x - \cos 2x = -\cos 4x$$

$$\cos 8x + \cos 4x - \cos 2x = 0$$

$$\cos 8x + \cos 4x = \cos 2x$$

$$\cos p + \cos q = 2\cos\frac{p+q}{2}\cos\frac{p-q}{2}$$

$$2 \cos\frac{8x+4x}{2} \cos\frac{8x-4x}{2} = \cos 2 \times$$

$$2\cos 6 \times \cos 2 \times = \cos 2 \times - 7\cos 2 \times = 0$$

$$= rolusione$$

$$2\cos 6 \times \cos 2 \times - \cos 2 \times = 0$$

$$\cos 2x \left(2\cos 6x - 1\right) = 0$$

$$\cos 6x = \frac{1}{2}$$

$$\cos 2x = 0$$

$$2x = \frac{\pi}{2} + K\pi$$

$$4x = \pm \frac{\pi}{3} + 2k\pi$$

$$\sqrt{X = \frac{\pi}{4} + k \frac{\pi}{2}} \qquad V \qquad X = \frac{1}{4} \frac{\pi}{18} + k \frac{\pi}{3}$$