8/11/2018

$$\sin\left(x - \frac{\pi}{4}\right) + \cos\left(x - \frac{\pi}{4}\right) - 1 = 0$$

$$X - \frac{77}{4} = y$$
 Siny + cosy - 1 = 0

CONNOLLO 
$$y = T + 2KT$$

$$Sin # + Costi - 1 \stackrel{?}{=} 0$$

$$0 - 1 - 1 \stackrel{?}{=} 0 \quad NON \stackrel{?}{=} Solvélone$$

$$\frac{2t}{1+t^2} + \frac{1-t^2}{1+t^2} - 1 = 0$$

$$\frac{2t + 1 - t^2 - 1 - t^2}{1 + t^2} = 0$$

$$-2t^{2}+2t=0$$
 $t(t-1)=0$ 
 $t=1$ 

$$tom \frac{y}{z} = 0 \qquad \frac{y}{z} = KTT \implies y = 2KTT$$

$$tau \frac{y}{z} = 1$$
  $\frac{y}{z} = \frac{\pi}{4} + \kappa \pi = > y = \frac{\pi}{2} + 2\kappa \pi$ 

$$X - \frac{\pi}{4} = 2k\pi$$
  $V \times -\frac{\pi}{4} = \frac{\pi}{2} + 2k\pi$ 

$$X = \frac{\pi}{4} + 2K\pi \qquad V \qquad X = \frac{3}{4}\pi + 2K\pi$$

 $2\sin^2 x + 3\sin x\cos x = 2 + \cos^2 x$ 

$$2 \sin^2 x + 3 \sin x \cos x = 2 \left( \cos^2 x + \sin^2 x \right) + \cos^2 x$$

$$2 \sin^2 x + 3 \sin x \cos x = 2 \cos^2 x + 2 \sin^2 x + \cos^2 x$$

$$3\cos^2 x - 3\sin x \cos x = 0$$

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

$$\cos x (\cos x - \sin x) = 0$$

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

$$x = \frac{\pi}{4} + k\pi$$

$$x = \frac{\pi}{4} + k\pi$$

$$x = \frac{\pi}{4} + k\pi$$

$$\frac{\cos 2x - \cos x}{\sin x} = 2 \tan \left( x + \frac{\pi}{2} \right)$$

$$\frac{\cos 2x - \cos x}{\sin x} = -2 \cot x$$

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

$$\begin{cases} \sin x \neq 0 \\ x + \frac{\pi}{2} \neq \frac{\pi}{2} + \kappa \pi \end{cases}$$

$$\begin{cases} \times \neq K\pi \\ \times \neq K\pi \end{cases} \boxed{\times \neq K\pi}$$

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

$$\cos 2x = 2\cos^2 x - 1$$

$$2(x)^{2} \times -1 - (x) \times + 2(x) \times = 0$$

$$2\cos^2 x + \cos x - 1 = 0$$

$$\cos x = \frac{-1 \pm \sqrt{1 + 8}}{4} = \frac{-1 \pm 3}{4} = \frac{1}{2}$$

$$Cos x = -1$$

$$X = \pi + 2K\pi$$

$$C.E. x \neq K\pi \qquad \pi (1+2K)$$

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

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

N.A. jer C.E.