5/11/2018

$$\tan^2 x - (1 + \sqrt{3}) \tan x + \sqrt{3} = 0$$

Ja2 = 121

$$tom \times = \frac{1+\sqrt{3} \pm \sqrt{(1+\sqrt{3})^2 - 4\sqrt{3}}}{2}$$

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

$$= \frac{1+\sqrt{3}\pm\sqrt{1+3}-2\sqrt{3}}{2} = \frac{1+\sqrt{3}\pm\sqrt{(1-\sqrt{3})^2}}{2}$$

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

$$\frac{\cancel{1+\sqrt{3}+1-\sqrt{3}}}{2} = 03$$

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

$$\frac{4\cos x - 7}{2\cos^2 x - \cos x} - \frac{5 - 6\cos x}{\cos x} = 7$$

$$\cos x \neq 0$$

$$\cos x \neq \frac{1}{2}$$

$$\Rightarrow \begin{cases} x \neq \frac{\pi}{2} + \kappa \pi \\ x \neq \frac{1}{3} + 2\kappa \pi \end{cases}$$

$$\frac{4(0)\times -7 - (2(0)\times -1)(5-66)\times)}{(0)\times (2(0)\times -1)} = \frac{7(2(0)^{2}\times -(0)\times)}{(0)\times (2(0)\times -1)}$$

$$4\cos x - 7 - 10\cos x + 12\cos^2 x + 5 - 6\cos x = 14\cos^2 x - 7\cos x$$

$$+2\cos^{2} x + 5\cos x + 2 = 0$$

$$-2 \text{ N.A.}$$

$$\cos x = \frac{-5 \pm \sqrt{25 - 16}}{4} = \sqrt{\frac{1}{2}} = \sqrt{\frac{1}{2}}$$

$$\sin \times (\cos \times +1) = 0$$



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

SOTONSIEME

$$\frac{\text{IV}}{\text{I} \times = \text{K} \pi}$$