

$$\sqrt{3} \sin x + \cos x + 1 = 0$$

$$\sqrt{3} \frac{2t}{1+t^2} + \frac{1-t^2}{1+t^2} + 1 = 0$$

$$t = -\frac{1}{\sqrt{3}} = -\frac{\sqrt{3}}{3}$$

$$\tan \frac{x}{2} = -\frac{\sqrt{3}}{3} \qquad \frac{x}{2} = -\frac{\pi}{6} + K\pi$$

$$\times = -\frac{\pi}{3} + 2 \times \pi$$

$$\times = \pi + 2K\pi \quad \forall \quad \times = -\frac{\pi}{3} + 2K\pi$$

Si potreble ouche usore il metado dell'ongolo aggiento per trosformore un'equatione del tipo
$$a cos x + b sin x = c$$
 in uno del tipo $\pi sin(x + 4) = c$

(FATTA IERI COL METODO GRAFICO) 251 $\sqrt{3} \sin x + \cos x = \sqrt{3}$ CONTROLLO U3 ser TT + CosTT = U3 0 -1 = U3 FALSO! X=#+2k# NOV E SUZIONE $2\sqrt{3}t + 4 - t^{2} = \sqrt{3}(4+t^{2})$ $1+t^{2} = 1+t^{2}$ $2\sqrt{3}t+1-t^2=\sqrt{3}+\sqrt{3}t^2$ $(\sqrt{3}+1)t^2-2\sqrt{3}t+\sqrt{3}-1=0$ $\Delta = 3-(\sqrt{3}+1)(\sqrt{3}-1)=$ $t = \frac{\sqrt{3} \pm 1}{\sqrt{3} + 1} = \frac{\sqrt{3} - 1}{\sqrt{3} + 1} = \frac{3 - (3 - 1) = 1}{\sqrt{3} - 1} = \frac{3 + 1 - 2\sqrt{3}}{3 - 1} = \frac{4 - 2\sqrt{3}}{2} = \frac{2 - \sqrt{3}}{2}$ tau $\frac{\times}{2} = 1$ V tau $\frac{\times}{2} = 2 - \sqrt{3}$ Ho BISGNO DEZ FORMULARIO! $\frac{X}{2} = \frac{\pi}{4} + K\pi \qquad \forall \qquad \frac{X}{2} = \frac{\pi}{12} + K\pi$ $X = \frac{\pi}{2} + 2K\pi \quad \forall \quad X = \frac{\pi}{6} + 2K\pi$