30/10/2018

14
$$2 \sin x = -\sqrt{2}$$

14
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 $\left[\frac{5}{4}\pi + 2k\pi; \frac{7}{4}\pi + 2k\pi\right]$

15
$$\sin x - 1 = 0$$

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

16
$$2 \sin x - 4 = 3$$

$$\sin x = \cos \frac{\pi}{6}$$

$$\sin x = \cos \frac{\pi}{6} \qquad \left[\frac{\pi}{3} + 2k\pi; \frac{2}{3}\pi + 2k\pi \right]$$

$$14) 2 \sin x = -\sqrt{2}$$

$$\sin x = -\frac{\sqrt{2}}{2} \qquad \alpha = -\frac{\pi}{4}$$

$$\alpha = -\frac{\pi}{4}$$

$$X = -\frac{\pi}{4} + 2K\pi$$

$$X = -\frac{\pi}{4} + 2K\pi \qquad V \qquad X = \pi - \left(-\frac{\pi}{4}\right) + 2K\pi$$

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

$$\times = -\frac{\pi}{4} + 2 K \pi$$

$$(x) = -\frac{\pi}{4} + 2k\pi \quad V \quad x = \frac{5}{4}\pi + 2k\pi$$

ATTENZIONE!

The right of sel libra
$$\bar{e}$$
 $x = \frac{5}{4}\pi + 2k\pi \quad v \quad x = \frac{7}{4}\pi + 2k\pi \quad (**)$

ma é aucas l'insième solusione tronots.

Bufalti

$$K=1 \implies -\frac{\pi}{4} + 2\pi = \frac{7}{4}\pi \text{ nol } (*)$$

$$K = -1 \implies \frac{2}{4}\pi - 2\pi = -\frac{\pi}{4} \text{ nel } (**)$$

$$\sin x = 1$$
 $x = \frac{\pi}{2} + 2 k \pi$

$$16$$
] $2 \sin x - 4 = 3$

$$|F| \sin x = \cos \frac{\pi}{6}$$

$$\lim x = \frac{\sqrt{3}}{2}$$

$$x = \frac{\pi}{3} + 2k\pi \quad \forall \quad x = \frac{2}{3}\pi + 2k\pi$$

$$x = \frac{\pi}{3} + 2k\pi \quad \forall \quad x = \frac{2}{3}\pi + 2k\pi$$

- · b<-1 v b>1 => IMPOSSIBILE
- · -1 < l => DETERMINATA

$$X = -\frac{1}{2}$$

$$B_1$$

$$-\frac{1}{2}$$

$$B_2$$

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

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

$$2\cos x = \sqrt{2}$$

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

$$Cos X = \frac{\sqrt{2}}{Z}$$

$$\chi = \frac{\pi}{4} \implies \chi = \pm \frac{\pi}{4} + 2 k \pi$$

61
$$8\cos x = 1$$

$$\left[\pm \arccos\frac{1}{8} + 2k\pi\right]$$

$$\omega > x = \frac{1}{8}$$

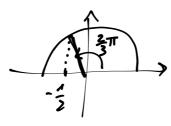
$$\chi = ancces \frac{1}{8} = > x = \pm ancces \frac{1}{8} + 2k\pi$$

71
$$2\cos\left(x + \frac{\pi}{6}\right) + 1 = 0$$

$$x + \pi = y \sim cos y = -\frac{1}{2}$$

$$Cos\left(x+\frac{\pi}{6}\right)=-\frac{1}{2}$$

$$d = aucos\left(-\frac{1}{2}\right) = \frac{2}{3}\pi$$



$$\times + \frac{\pi}{6} = \pm \frac{2}{3}\pi + 2K\pi$$



$$x + \frac{\pi}{6} = -\frac{2}{3}\pi + 2k\pi$$

$$x + \frac{\pi}{6} = -\frac{2}{3}\pi + 2k\pi \qquad \forall \qquad x + \frac{\pi}{6} = \frac{2}{3}\pi + 2k\pi$$

$$X = -\frac{\pi}{6} - \frac{2}{3}\pi + 2k\pi$$
 \vee $\times = \frac{2}{3}\pi - \frac{\pi}{6} + 2k\pi$

$$X = -\frac{5}{6}\pi + 2k\pi \quad V \quad X = \frac{\pi}{2} + 2k\pi$$

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

Ju generale
$$|f(x)| = k$$

$$|f(x)| = k$$

$$f(x) = \pm K$$

$$f(x) = -K \quad \forall \quad f(x) = K$$

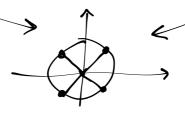


$$Cos\left(x-\frac{\pi}{4}\right)=-\frac{\sqrt{2}}{2} \qquad V \qquad Cos\left(x-\frac{\pi}{4}\right)=\frac{\sqrt{2}}{2}$$

$$Cos\left(x-\frac{\pi}{4}\right)=\frac{\sqrt{2}}{2}$$

$$x - \frac{\pi}{4} = \pm \frac{3}{4}\pi + zk\pi$$

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

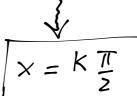


$$\frac{1}{4} + \kappa \frac{\pi}{2}$$

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

$$\times = \frac{\pi}{z} + K \frac{\pi}{z}$$

$$x = (k+1)\frac{\pi}{2}$$



$$toux = 2$$

$$x = ouctou 2 + KT$$

$$3\tan\left(x+\frac{\pi}{9}\right)-\sqrt{3}=0$$

$$\left[\frac{\pi}{18} + k\pi\right]$$

$$3\tan\left(x+\frac{\pi}{3}\right)=\sqrt{3}$$

$$tom \left(x + \frac{\pi}{9}\right) = \frac{\sqrt{3}}{3}$$

$$\times + \frac{\pi}{9} = \frac{\pi}{6} + kT$$

$$X = \frac{11}{6} - \frac{\pi}{9} + k\pi$$

$$X = \frac{3\pi - 2\pi}{18} + k\pi$$

$$\times = \frac{\pi}{18} + K \pi$$