$$2|\cos x| = 1$$

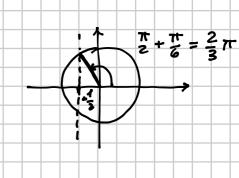
$$\left[\pm\frac{\pi}{3}+k\pi\right]$$

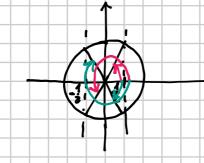
$$|(x) \times | = \frac{1}{2} = > (x) \times = \pm \frac{1}{2}$$

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

$$\cos x = \frac{1}{2} \qquad V \qquad \cos x = -\frac{1}{2}$$

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





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

$$62 \quad \cos x - 4 = 3\cos x + 8$$

[impossibile]

$$\cos x - 3 \cos x = 8 + 4$$

**81** 
$$2\cos x - 2\cos 45^\circ = 2(\sqrt{2}\sin 60^\circ - \cos x)$$

 $[\pm 15^{\circ} + k360^{\circ}]$ 

$$2\cos x - 2\cdot \frac{\sqrt{2}}{2} = 2\left(\sqrt{2}\cdot \frac{\sqrt{3}}{2} - \cos x\right)$$

$$COX = \frac{\sqrt{6} + \sqrt{2}}{4}$$

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

$$\left[k\pi;\frac{2}{3}\pi+k\pi\right]$$

$$\tan\left(x-\frac{17}{3}\right)=\pm\sqrt{3}$$

V tau 
$$\left(x - \frac{77}{3}\right) = \sqrt{3}$$

$$\times -\frac{tv}{3} = -\frac{tv}{3} + K\pi$$

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

$$\sin\left(2x + \frac{\pi}{5}\right) = \sin\left(5x + \frac{\pi}{2}\right)$$

$$\left[ -\frac{\pi}{10} - \frac{2}{3}k\pi; \frac{3}{70}\pi + \frac{2}{7}k\pi \right]$$

$$\alpha = \beta + 2k\pi \quad \forall \quad \alpha = \pi - \beta + 2k\pi$$

$$2 \times + \frac{\pi}{5} = 5 \times + \frac{\pi}{2} + 2 k \pi \quad \forall \quad 2 \times + \frac{\pi}{5} = \pi - \left(5 \times + \frac{\pi}{2}\right) + 2 k \pi$$

$$-3 \times = \frac{\pi}{2} - \frac{\pi}{5} + 2 \kappa \pi \qquad \forall \qquad 2 \times + \frac{\pi}{5} = \pi - 5 \times - \frac{\pi}{2} + 2 \kappa \pi$$

$$-3x = \frac{5\pi - 2\pi}{10} + 2\kappa\pi \qquad \forall \qquad 7x = \frac{\pi}{2} - \frac{\pi}{5} + 2\kappa\pi$$

$$-3x = \frac{3}{10}\pi + 2K\pi$$
  $\sqrt{7x} = \frac{3}{10}\pi + 2K\pi$ 

$$X = -\frac{77}{10} + \frac{2}{3}k\pi$$
  $V$   $X = \frac{3}{40}\pi + \frac{2}{7}k\pi$ 

$$\cos\left(5x - \frac{2}{3}\pi\right) = \cos\left(3x + \frac{\pi}{4}\right) \qquad \left[\frac{11}{24}\pi + k\pi; \frac{5}{96}\pi + k\frac{\pi}{4}\right]$$

$$\left[\frac{11}{24}\pi + k\pi; \frac{5}{96}\pi + k\frac{\pi}{4}\right]$$

$$\omega \alpha = \omega \beta$$
  $\omega = \pm \beta + 2k\pi$ 

$$5x - \frac{2}{3}\pi = 3x + \frac{\pi}{4} + 2k\pi \quad \forall \quad 5x - \frac{2}{3}\pi = -3x - \frac{\pi}{4} + 2k\pi$$

$$2x = \frac{2}{3}\pi + \frac{\pi}{4} + 2K\pi$$
  $\sqrt{8x} = \frac{2}{3}\pi - \frac{\pi}{4} + 2K\pi$ 

$$2 \times = \frac{8\pi + 3\pi}{12} + 2 \times \pi$$

$$\sin\left(4x - \frac{\pi}{10}\right) = -\cos\left(3x + \frac{\pi}{5}\right)$$

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

$$Sin\left(4x-\frac{\pi}{10}\right)=-Sin\left(\frac{\pi}{2}-\left(3x+\frac{\pi}{5}\right)\right)$$

$$\sin\left(4x - \frac{\pi}{10}\right) = -\sin\left(\frac{\pi}{2} - 3x - \frac{\pi}{5}\right)$$

$$-\sin d = \sin(-x)$$

$$-\frac{\pi}{2} + \frac{\pi}{5} = \frac{-5 + 2}{10} \pi$$

$$\operatorname{Sin}\left(4x - \frac{\pi}{10}\right) = \operatorname{Sin}\left(-\frac{\pi}{2} + 3x + \frac{\pi}{5}\right)$$

$$\sin\left(4x - \frac{\pi}{10}\right) = \sin\left(3x - \frac{3}{10}\pi\right)$$

$$4x - \frac{\pi}{10} = 3x - \frac{3}{10}\pi + 2k\pi$$
  $\sqrt{4x - \frac{\pi}{10}} = \pi - 3x + \frac{3}{10}\pi + 2k\pi$ 

$$X = -\frac{\pi}{5} + 2K\pi \qquad V \qquad 7X = \frac{7}{5}\pi + 2K\pi$$

$$x = -\frac{\pi}{5} + 2K\pi$$
  $V$   $x = \frac{\pi}{5} + \frac{2}{7}K\pi$