## ELEMENTARI

 $2\sin x = 1$ 

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

$$\begin{array}{c|c}
Y & Y = \frac{1}{2} \\
O & X
\end{array}$$

$$X = \frac{\pi}{6} + 2K\pi$$

$$V \quad X = \left(\pi - \frac{\pi}{6}\right) + 2K\pi$$

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

REGOLA GENERALE PER

Sin X = m

m <-1 v m >1 => Fa. IMPOSSIBILE

-1 < m < 1 => Trovo un anglé il cui servé à m L> & = arcsin (m)

$$X = \alpha + 2K\pi$$
  $V$   $X = (\pi - \alpha) + 2K\pi$ 

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$$2 \sin x = \sqrt{3}$$

$$\sin x = \frac{\sqrt{3}}{2}$$
  $x = \arcsin\left(\frac{\sqrt{3}}{2}\right) = \frac{\pi}{3}$ 

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

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

$$2 \operatorname{sen} x = -\sqrt{2}$$

$$Sin X = -\frac{\sqrt{2}}{2}$$



$$\alpha = \arcsin\left(-\frac{\sqrt{2}}{2}\right) = -\frac{\pi}{4}$$
 $\pi + \frac{\pi}{4}$ 

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

$$X = -\frac{\pi}{4} + 2K\pi \quad V \quad X = \frac{5}{4}\pi + 2K\pi$$

$$2 \sin 3x - 1 = 0$$

$$\sin 3 \times = \frac{1}{2}$$

$$\alpha = \alpha \sin \left(\frac{1}{2}\right) = \frac{\pi}{6}$$

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

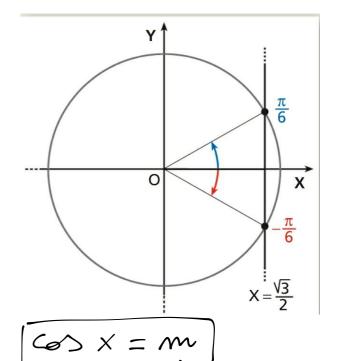
$$3X = \frac{\pi}{6} + 2k\pi$$
  $V$   $3X = \frac{5}{6}\pi + 2k\pi$ 

$$X = \frac{\pi}{18} + \frac{2}{3}K\pi \quad \forall \quad X = \frac{5}{18}\pi + \frac{2}{3}K\pi$$

$$Con X = \frac{\sqrt{3}}{2}$$

$$\alpha = \alpha \cos \left(\frac{\sqrt{3}}{2}\right) = \frac{\pi}{6}$$

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



REGOLA

GENERALE PER

m <-1 V m >1 => FQ. IMPOSSIBILE

-1 < m < 1 => toro & = arccos (m)

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

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

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$$\cos x = -\frac{1}{2}$$
  $\left[ x = \pm \frac{2}{3}\pi + 2k\pi \right]$ 

$$\alpha = \alpha \cdot \cos\left(-\frac{1}{2}\right) = \frac{2}{3} \pi$$

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

