

EQUAZIONI ELEMENTARI

1/2

1. $\text{sen } x = k$

2. $\text{cos } x = h$

3. $\text{Tg } x = l$

4. $\text{ctg } x = m$

$k, h, l, m \in \mathbb{R}$

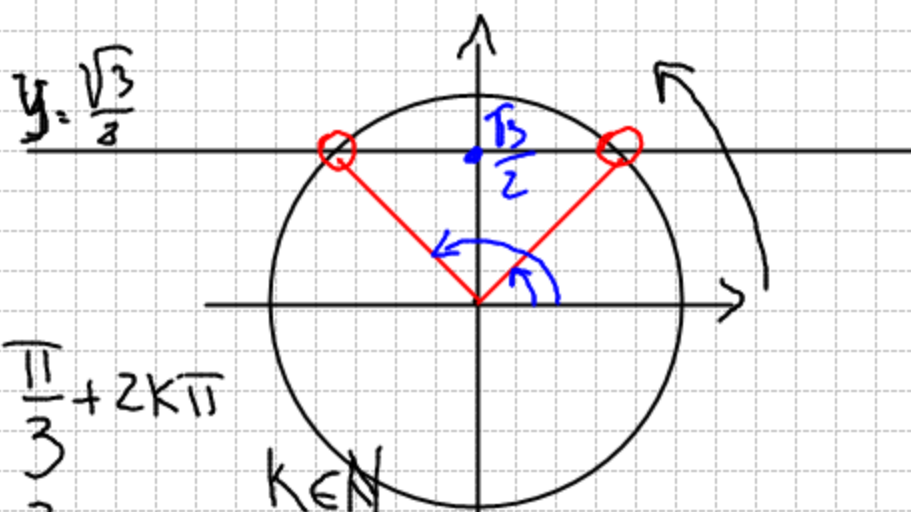
ESEMPI

1.) $\text{sen } x = \frac{\sqrt{3}}{2}$

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

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

$k \in \mathbb{N}$

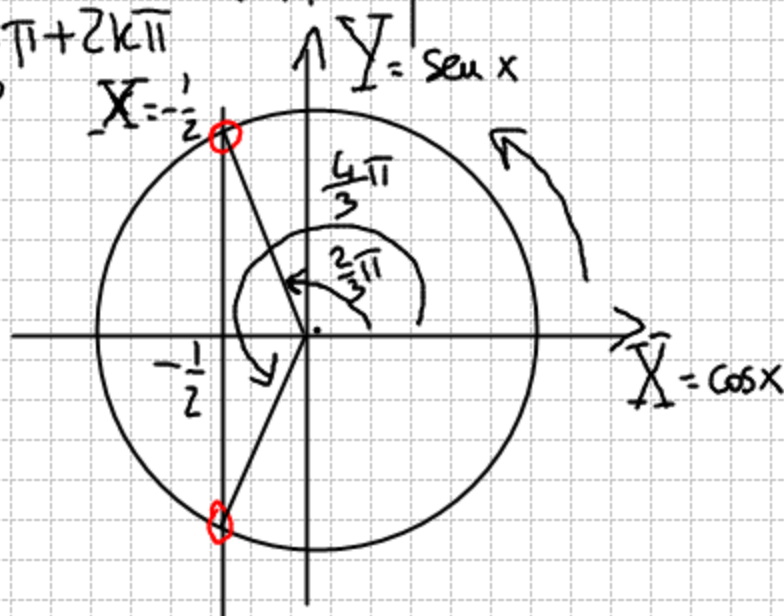


2.) $\text{cos } x = -\frac{1}{2}$

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

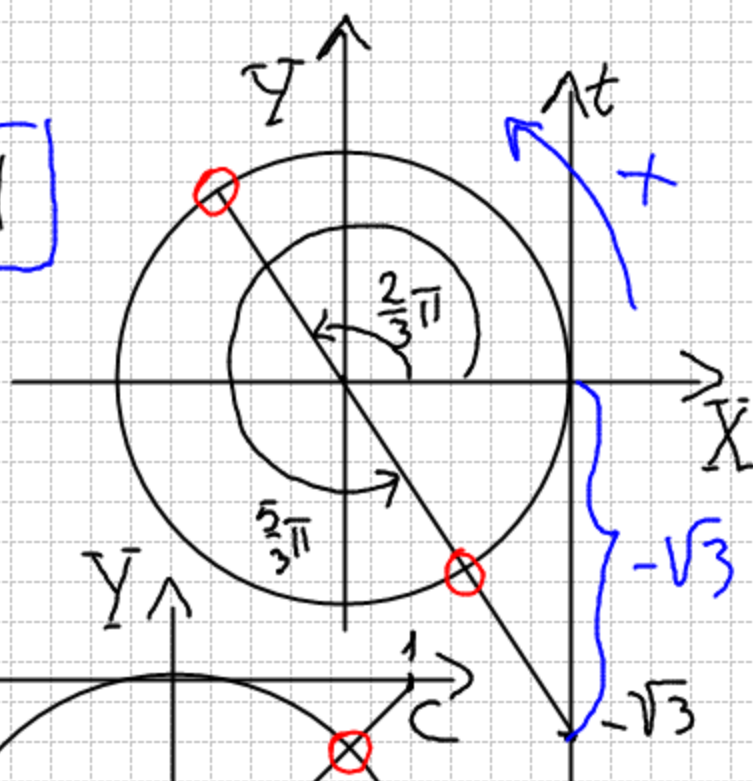
$x = \frac{4\pi}{3} + 2k\pi$

$k \in \mathbb{N}$



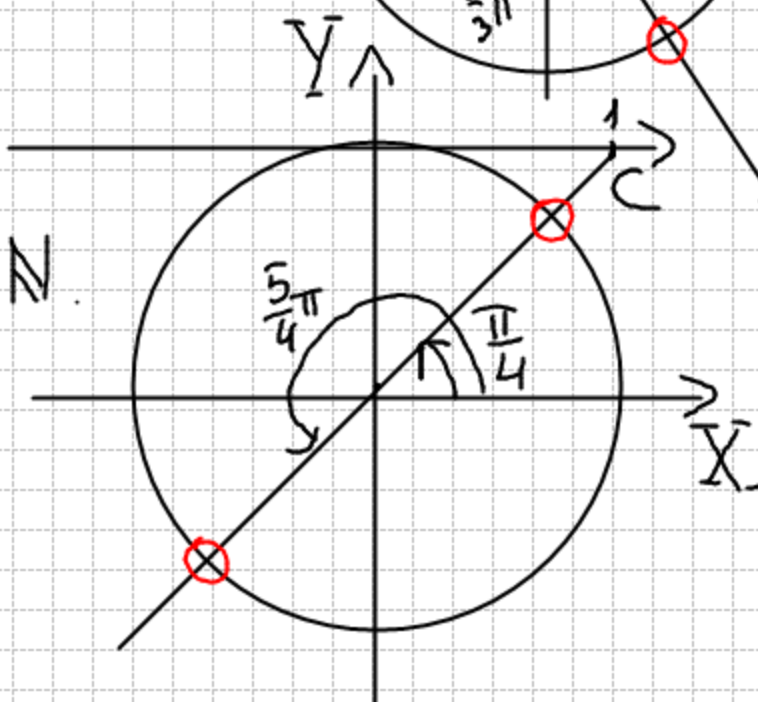
3. $\text{Tg } x = -\sqrt{3}$

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



4. $\text{ctg } x = 1$

$x = \frac{\pi}{4} + k\pi$



EQUAZIONI RICONDUCEBILI ALLE ELEMENTARI

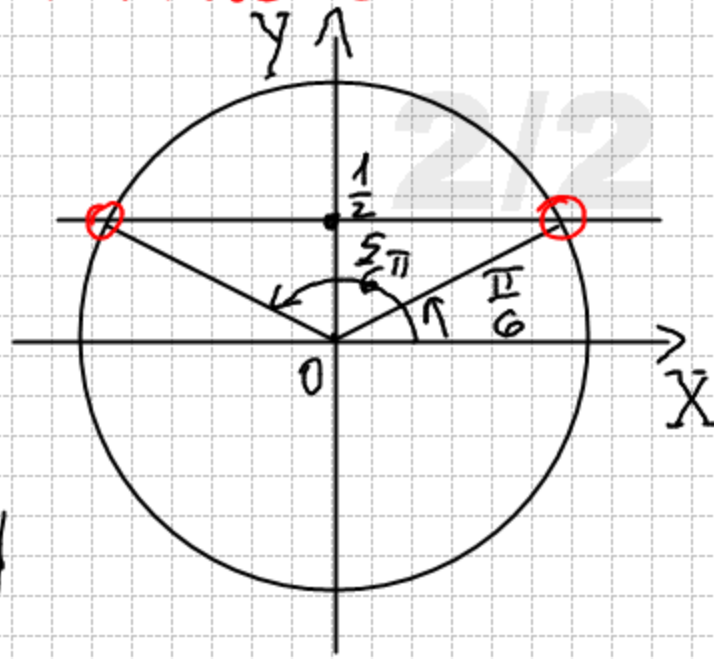
1. $\operatorname{sen} 3x = \frac{1}{2}$

$$3x = \frac{\pi}{6} + 2k\pi \quad k \in \mathbb{N}$$

$$3x = \frac{5}{6}\pi + 2k\pi \quad k \in \mathbb{N}$$

$$x = \frac{\pi}{18} + \frac{2}{3}k\pi \quad k \in \mathbb{N}$$

$$x = \frac{5}{18}\pi + \frac{2}{3}k\pi \quad k \in \mathbb{N}$$



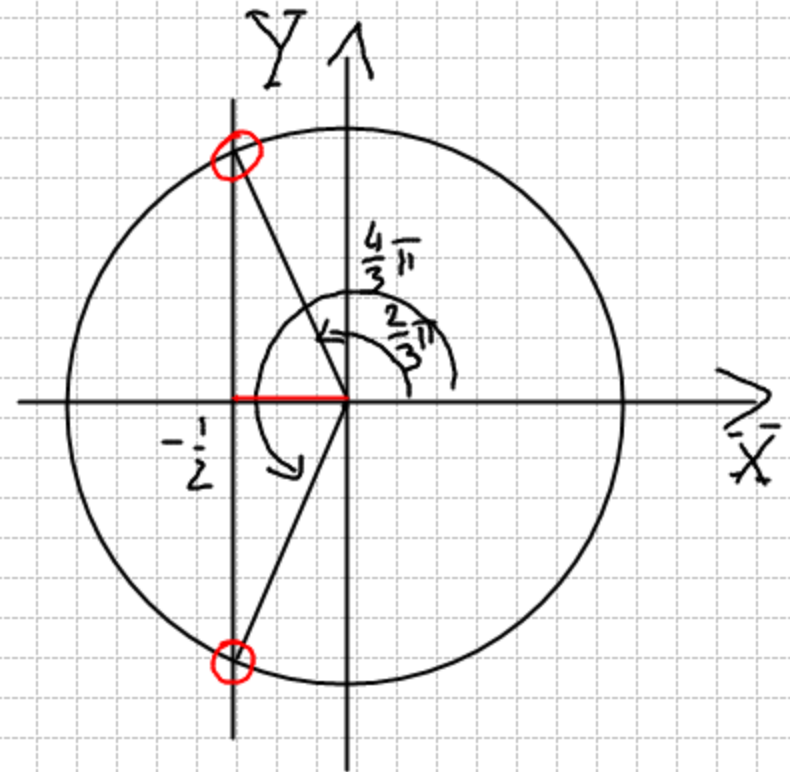
2. $\cos\left(x + \frac{\pi}{3}\right) = -\frac{1}{2}$

$$x + \frac{\pi}{3} = \frac{2}{3}\pi + 2k\pi \quad k \in \mathbb{N}$$

$$x + \frac{\pi}{3} = \frac{4}{3}\pi + 2k\pi \quad k \in \mathbb{N}$$

$$x = \frac{\pi}{3} + 2k\pi \quad k \in \mathbb{N}$$

$$x = \pi + 2k\pi \quad k \in \mathbb{N}$$



3. $\operatorname{tg} \frac{x}{2} = -1$

$$\frac{x}{2} = \frac{3}{4}\pi + k\pi \quad k \in \mathbb{N}$$

$$x = \frac{3}{2}\pi + 2k\pi \quad k \in \mathbb{N}$$

