

EQUAZIONI GONIOMETRICHE

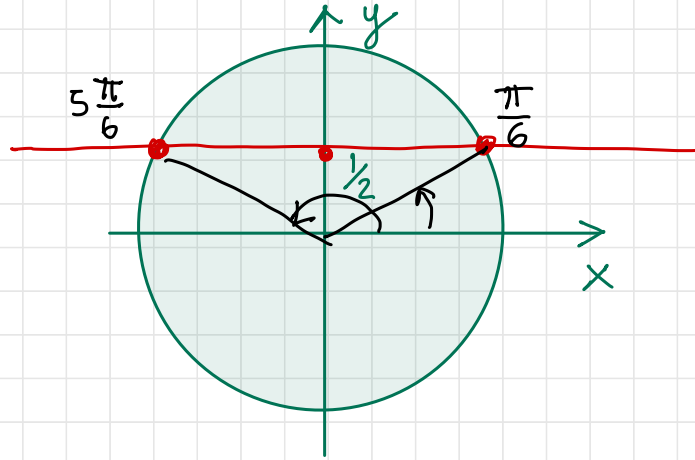


M4014

EQUAZIONI GONIOMETRICHE :

IL RISULTATO DI UNA EQUAZIONE GONIOMETRICA È UN ANGOLO x

ES: $\text{sen } x = \frac{1}{2}$



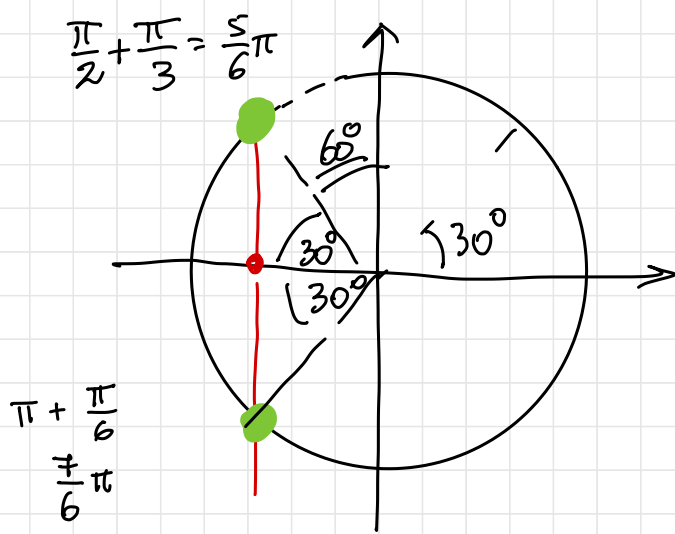
$$x_1 = \frac{\pi}{6} + 2k\pi$$

$$; \quad x_2 = \frac{5}{6}\pi + 2k\pi$$

$$\cos x = -\frac{\sqrt{3}}{2}$$

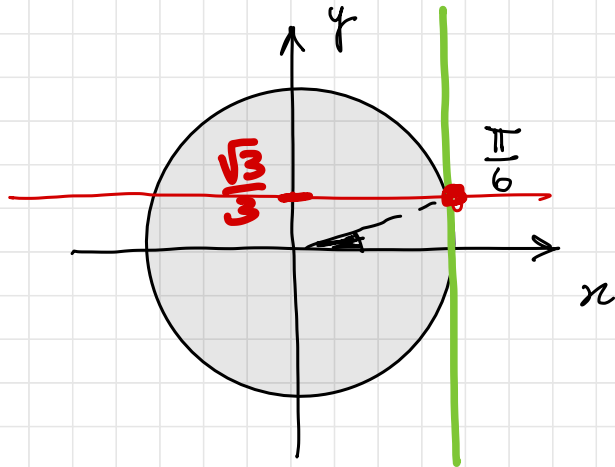
$$x_1 = \frac{5\pi}{6} + 2k\pi$$

$$x_2 = \frac{7\pi}{6} + 2k\pi$$



$$\tan x = +\frac{\sqrt{3}}{3}$$

$$x = \frac{\pi}{6} + k\pi$$



$$1) \frac{8 \sin 8x}{8} = \frac{8}{8}$$

$$\sin 8x = 1$$

$$8x = \frac{\pi}{2} + 2k\pi$$

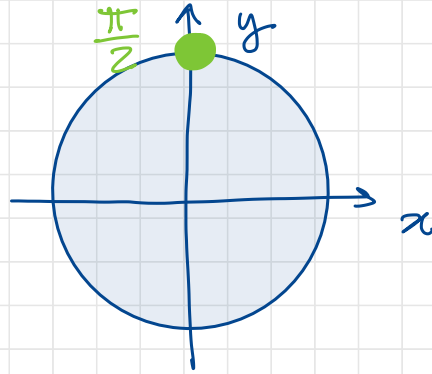
IO VOGLI X NON 8X

$$x = \frac{\frac{\pi}{2} + 2k\pi}{8} \rightarrow$$

$$x = \frac{\pi}{16} + \frac{k\pi}{4}$$

$$1) 8 \sin 8x = 8$$

$$2) \sin x + 3 = 2(\sin x + 1)$$



$$\left[\frac{\pi}{16} + k \frac{\pi}{4} \right]$$

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

$$2) \sin x + 3 = 2(\sin x + 1)$$

$$\sin x + 3 = 2\sin x + 2$$

$$-\sin x = -1$$

$$\rightarrow \div (-1)$$

$$\sin x = 1$$

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

