

CONIOMETRIA

10 feb '21

ex $\sin\left(n + \frac{\pi}{6}\right) = \sin\left(2n + \frac{3}{4}\pi\right)$

||

$$\sin \alpha = \sin \beta$$

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

V

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

$$n + \frac{\pi}{6} = 2n + \frac{3}{4}\pi + 2k\pi$$

V

$$n + \frac{\pi}{6} = \pi - 2n - \frac{3}{4}\pi + 2k\pi \quad \dots$$

ex $\sin n - 2 \sin n \cos n = 0$

\swarrow

$$\sin n (1 - 2 \cos n) = 0$$

\searrow

$$\sin n = \sin 2n$$



ex $2 \cos^2 n - \cos n - 1 = 0$

$$2t^2 - t - 1 = 0 \quad \dots$$

ex $2^{\sin n - \cos n} > 1 = 2^0$

$$\sin n - \cos n > 0$$

→ angolo aggiunto

$$\begin{aligned} \rightarrow \sin n &= Y \\ \cos n &= X \end{aligned} \Rightarrow \begin{cases} Y - X > 0 \\ X^2 + Y^2 = 1 \end{cases}$$

→ $\cos n (\tan n - 1) > 0$

$$t = \cos n$$

ANGOLO AGGIUNTO

sia $m = a \sin n + b \cos n$

- $K = \sqrt{a^2 + b^2}$

- $\tan \alpha = \frac{b}{a}$

allora

$$m = K \cdot \sin(n + \alpha)$$