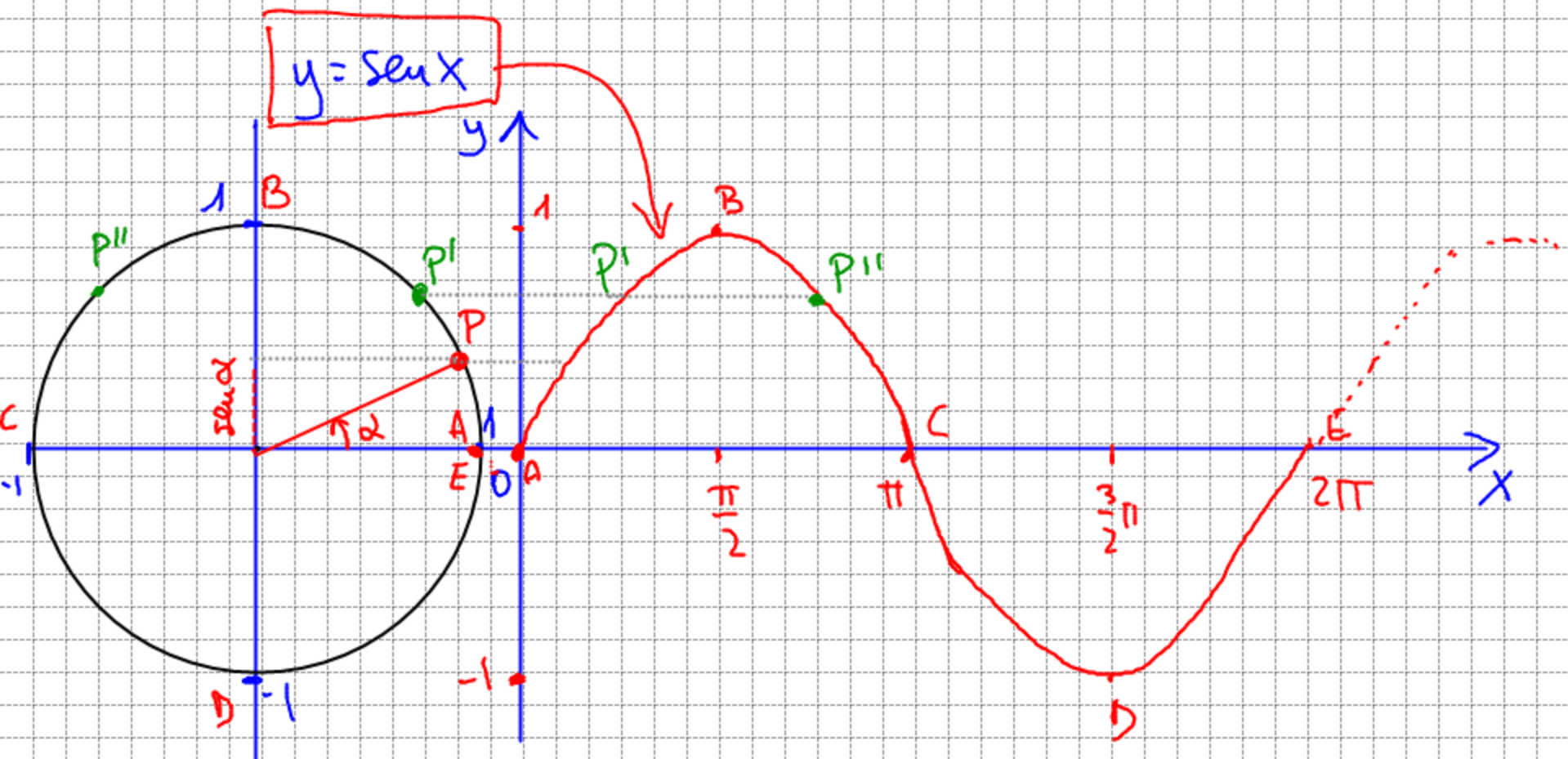


PERIODICITÀ DEL SENO E DEL COSENO

$T = \text{periodo}$ se $\forall x \in D_f \quad f(x) = f(x + kT)$ con $k \in \mathbb{Z}$.

$$\begin{aligned} \cos \alpha &= \cos(\alpha + 2k\pi) & k \in \mathbb{Z} & \quad 2\pi = T \text{ è il periodo.} \\ \sin \alpha &= \sin(\alpha + 2k\pi) & k \in \mathbb{Z} & \quad 2\pi = T \text{ è il periodo.} \end{aligned}$$

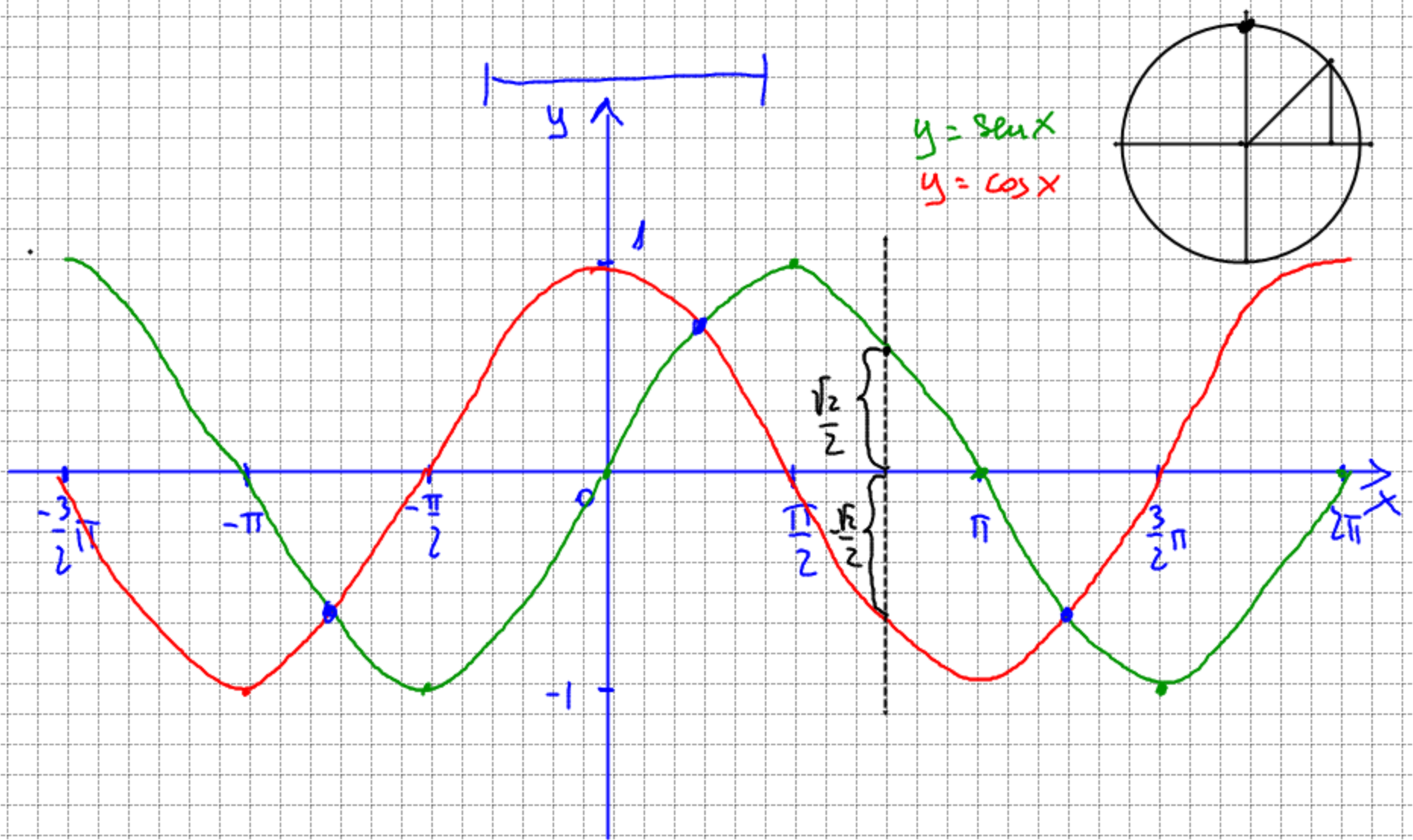
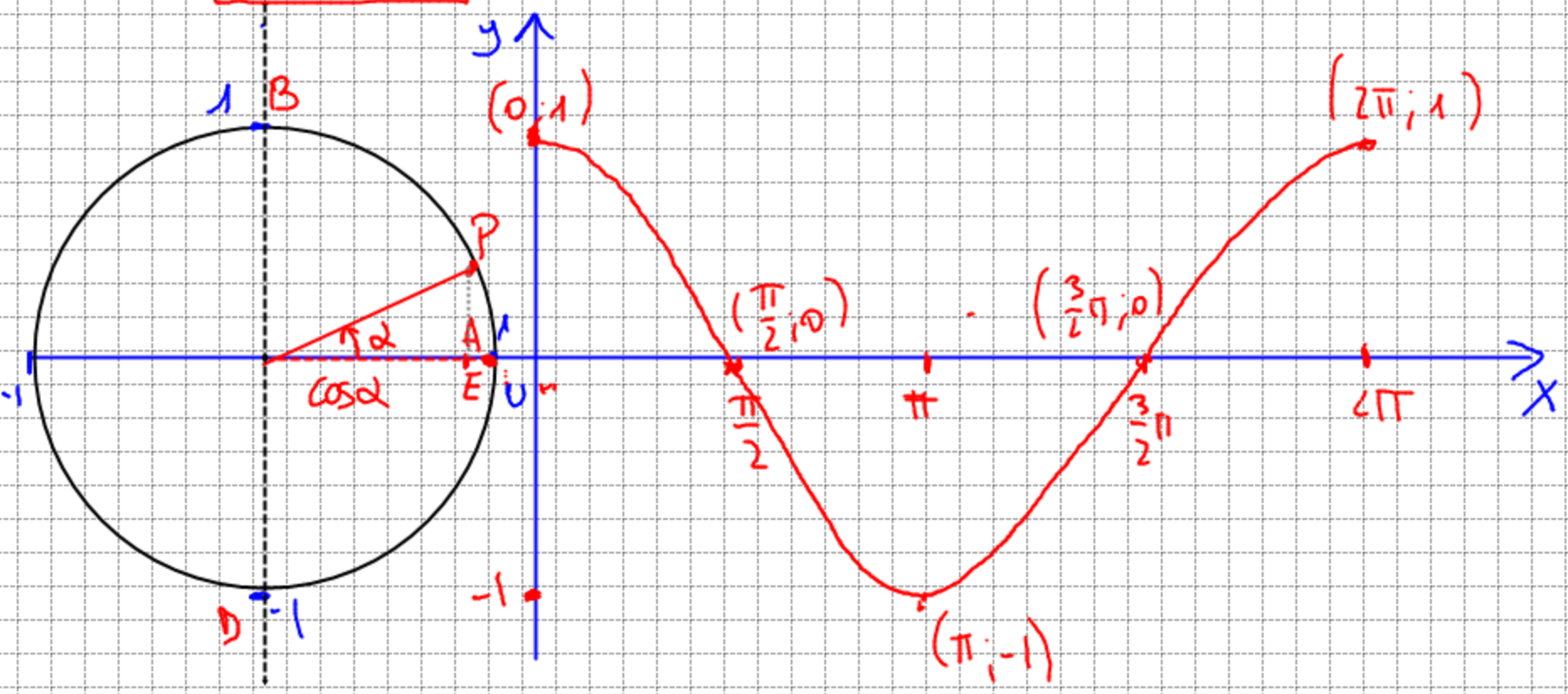
SINUSOIDE



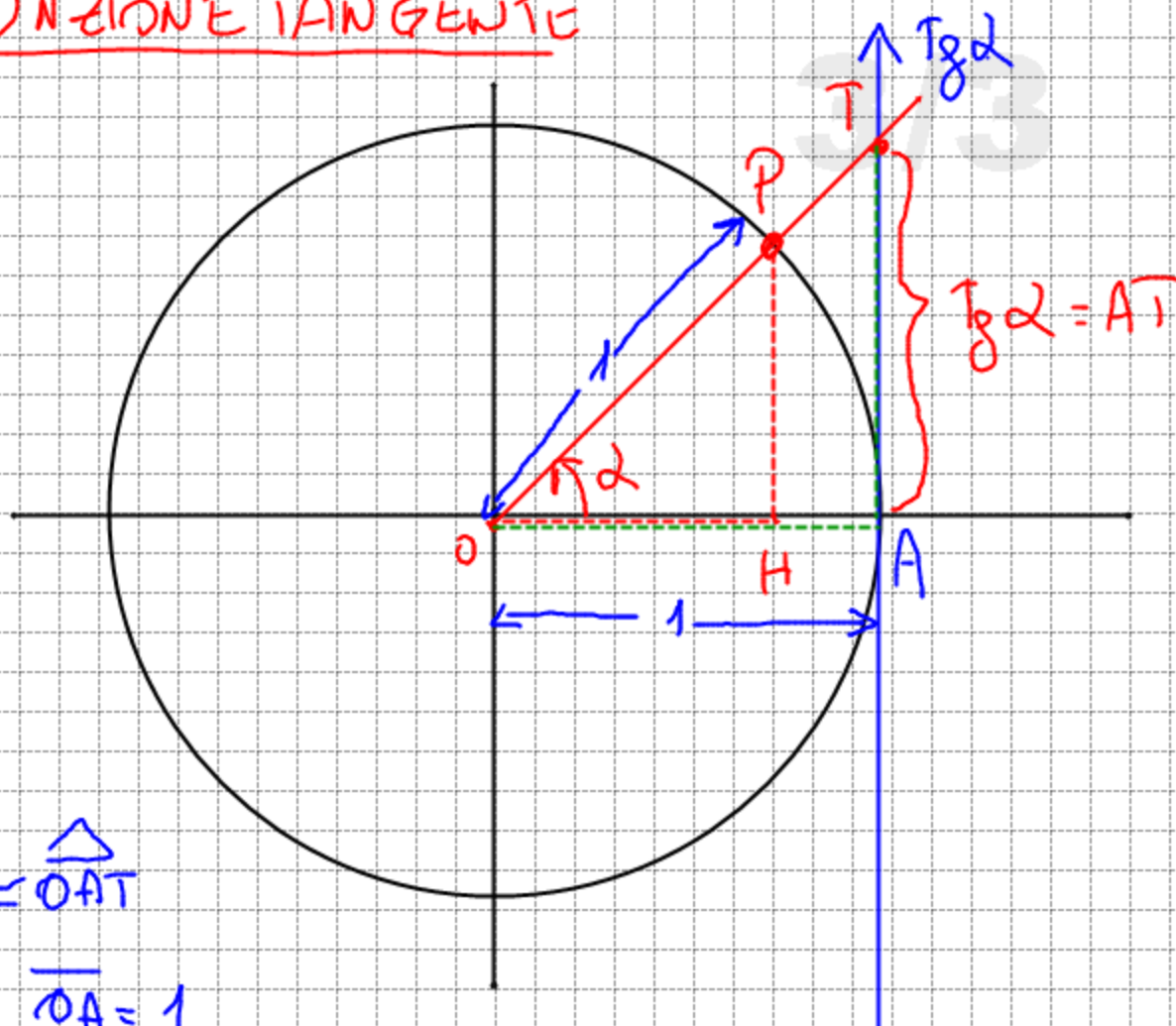
COSINUSFUNKTION

$$y = \cos x$$

2/3



LA FUNZIONE TANGENTE



$$\triangle OPH \cong \triangle OAT$$

$$\overline{OP} = 1 \quad \overline{OA} = 1$$

$$\overline{HP} : \overline{OH} = \overline{AT} : \overline{OA}$$

$$\sin \alpha : \cos \alpha = \text{Tgd} : 1$$

$$\boxed{\text{Tgd} = \frac{\sin \alpha}{\cos \alpha}} \quad \begin{array}{l} \text{SECONDA} \\ \text{RELAZIONE} \\ \text{FONDAZIONALE} \end{array}$$

ESERCIZIO

Calcolare la Tangente di tutti gli angoli ~~trattati~~ con il seno e coseno. Provare a preficarla per punti.