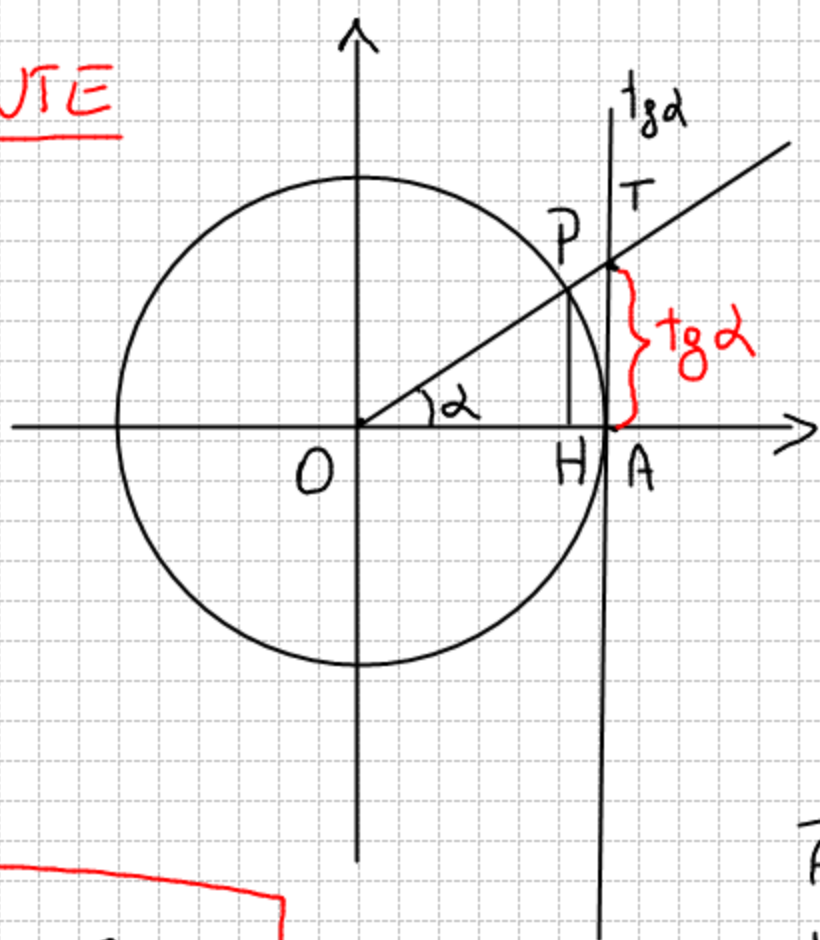


TANGENTE



$$\triangle OHP \cong \triangle OAT$$

$$\overline{PH} = \text{sen } \alpha$$

$$\overline{OH} = \text{cos } \alpha$$

$$\overline{OA} = 1$$

$$\overline{AT} = \text{Tg } \alpha$$

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

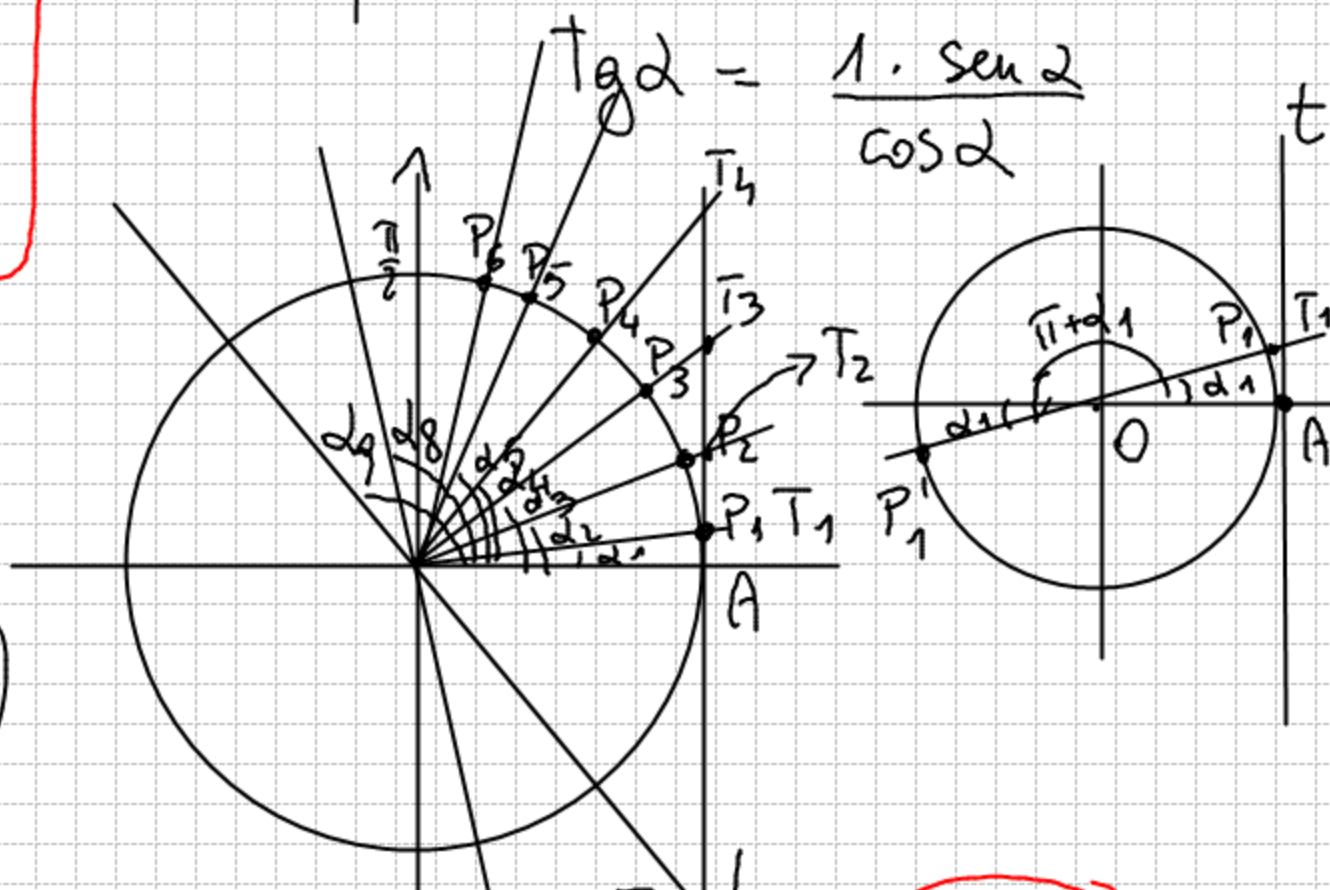
$$\text{Tg } \alpha = \frac{\text{Sen } \alpha}{\text{Cos } \alpha}$$

$$\text{Tg } \alpha = \frac{1 \cdot \text{Sen } \alpha}{\text{Cos } \alpha}$$

$$\overline{T} = \overline{\Pi}$$

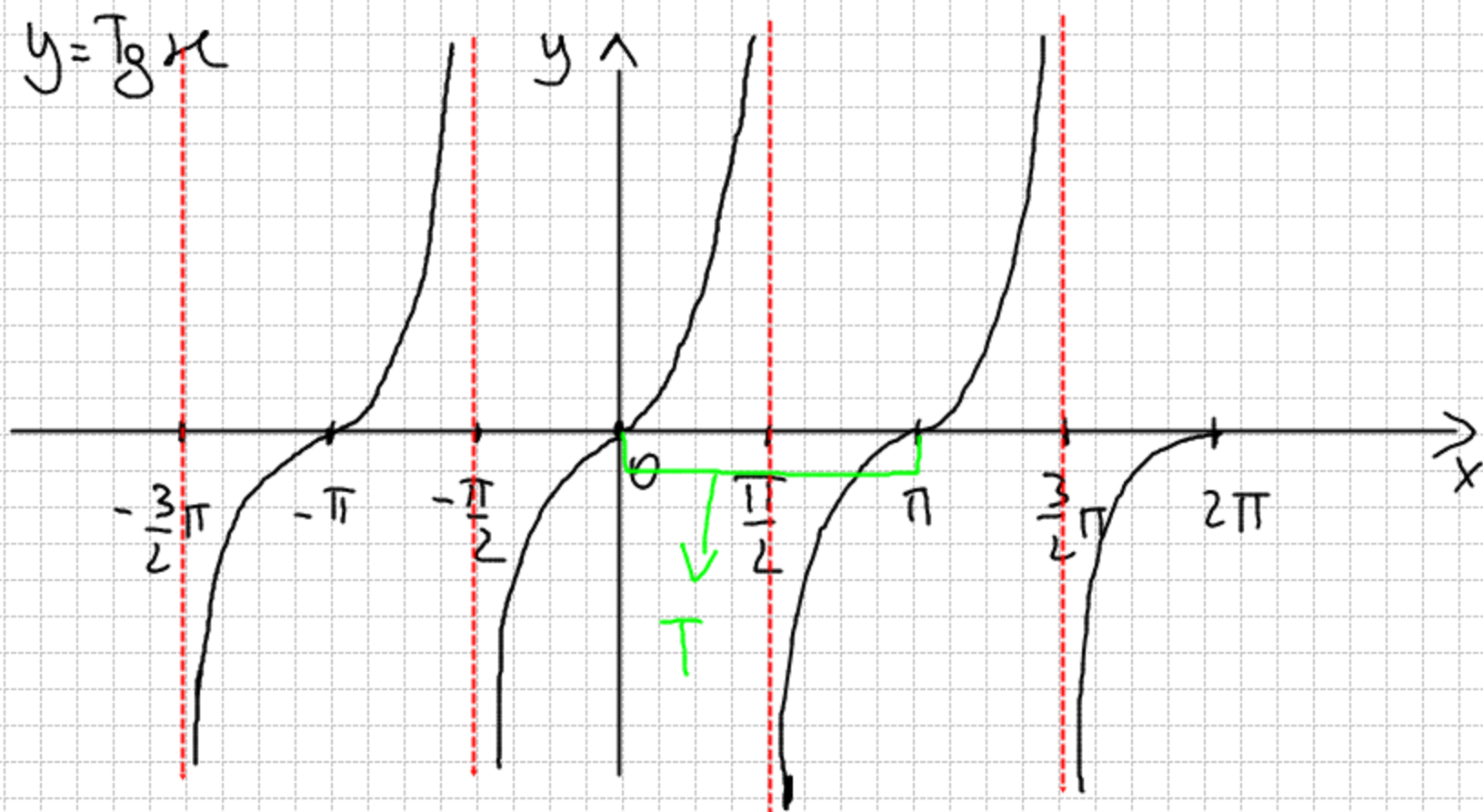
$$\text{Tg } \alpha = \text{Tg}(\alpha + k\pi)$$

$$k \in \mathbb{N}(\mathbb{Z})$$



α	0^+	\nearrow	$\frac{\pi}{2}^-$	$\frac{\pi}{2}^+$	π^-	π^+	$\frac{3\pi}{2}^-$	$\frac{3\pi}{2}^+$	$2\pi^-$
$\text{Tg } \alpha$	0^+	\nearrow	$+\infty$	$-\infty$	0^-	0^+	$+\infty$	$-\infty$	0^-

$$y = \text{Tg } x$$



$$\lim_{x \rightarrow \frac{\pi}{2}^-} \text{Tg } x = +\infty$$

$$\lim_{x \rightarrow \frac{\pi}{2}^+} \text{Tg } x = -\infty$$

$$\lim_{x \rightarrow \frac{3\pi}{2}^-} \text{Tg } x = +\infty$$

$$\lim_{x \rightarrow \frac{3\pi}{2}^+} \text{Tg } x = -\infty$$