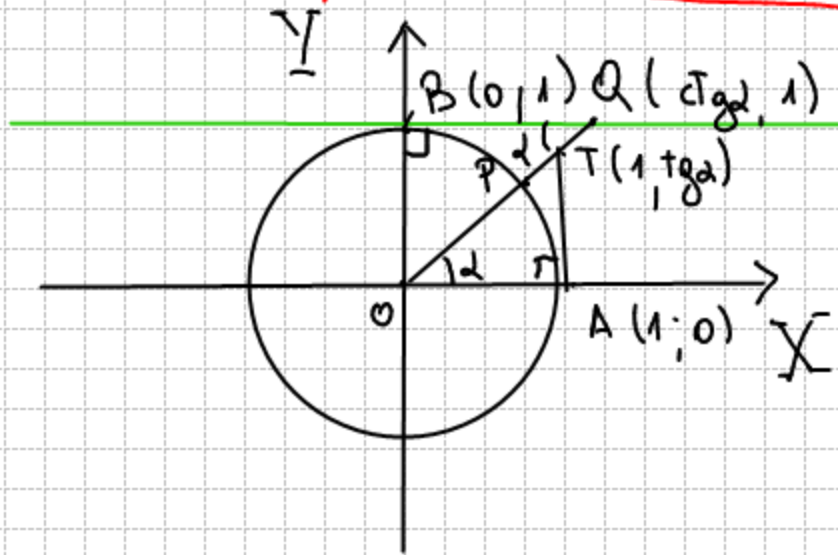


# LE FUNZIONI COTANGENTE, COSECANTE, SECANTE

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## COTANGENTE



$$\triangle ORB \cong \triangle OAT$$

$$\overline{BQ} : \overline{BO} = \overline{OA} : \overline{TA}$$

$$ctg \alpha : 1 = 1 : tg \alpha$$

$$ctg \alpha = \frac{1}{tg \alpha}$$

$\alpha$	$tg \alpha$	$ctg \alpha = \frac{1}{tg \alpha}$
0	0	$\infty$
$\frac{\pi}{6}$	$\frac{1}{\sqrt{3}}$	$\sqrt{3}$
$\frac{\pi}{4}$	1	1
$\frac{\pi}{3}$	$\sqrt{3}$	$\frac{1}{\sqrt{3}}$
$\frac{\pi}{2}$	$\infty$	0

$\alpha \rightarrow 0^- \quad ctg \alpha \rightarrow -\infty$   
 $\alpha \rightarrow 0^+ \quad ctg \alpha \rightarrow \infty$

