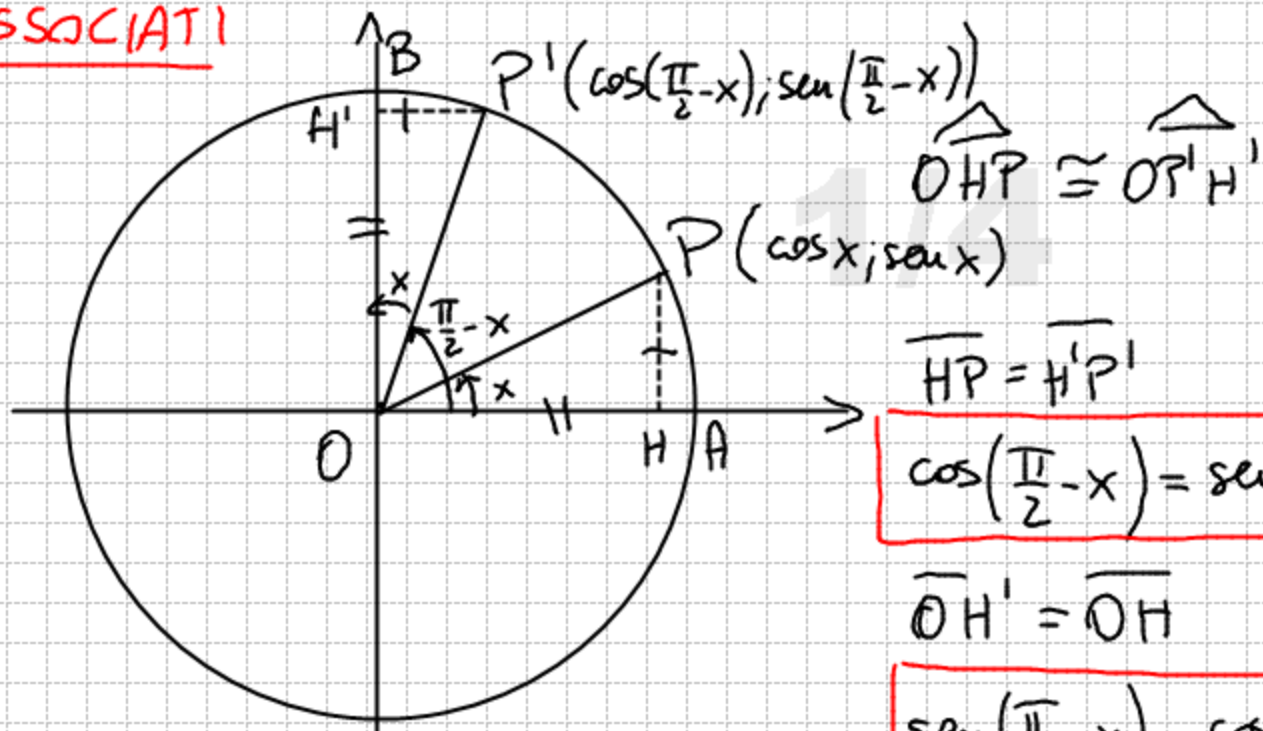$$\frac{\pi}{2}-x \; ; \; \frac{\pi}{2}+x$$

$$\widehat{OHP} \cong \widehat{OP'H'}$$

$$\overline{HP} = \overline{H'P'}$$

$$\boxed{\cos\left(\frac{\pi}{2}-x\right) = \operatorname{sen} x}$$

$$\overline{OH'} = \overline{OH}$$

$$\boxed{\operatorname{sen}\left(\frac{\pi}{2}-x\right) = \cos x}$$

$$\operatorname{tg}\left(\frac{\pi}{2}-x\right) = \frac{\operatorname{sen}\left(\frac{\pi}{2}-x\right)}{\cos\left(\frac{\pi}{2}-x\right)} = \frac{\cos x}{\operatorname{sen} x} = \operatorname{ctg} x$$

$$\boxed{\operatorname{Tg}\left(\frac{\pi}{2}-x\right) = \operatorname{ctg} x}$$

$$\operatorname{ctg}\left(\frac{\pi}{2}-x\right) = \frac{\cos\left(\frac{\pi}{2}-x\right)}{\operatorname{sen}\left(\frac{\pi}{2}-x\right)} = \frac{\operatorname{sen} x}{\cos x} = \operatorname{tg} x$$

$$\boxed{\operatorname{ctg}\left(\frac{\pi}{2}-x\right) = \operatorname{Tg} x}$$

$$\sec\left(\frac{\pi}{2}-x\right) = \frac{1}{\cos\left(\frac{\pi}{2}-x\right)} = \frac{1}{\operatorname{sen} x} = \operatorname{cosec} x$$
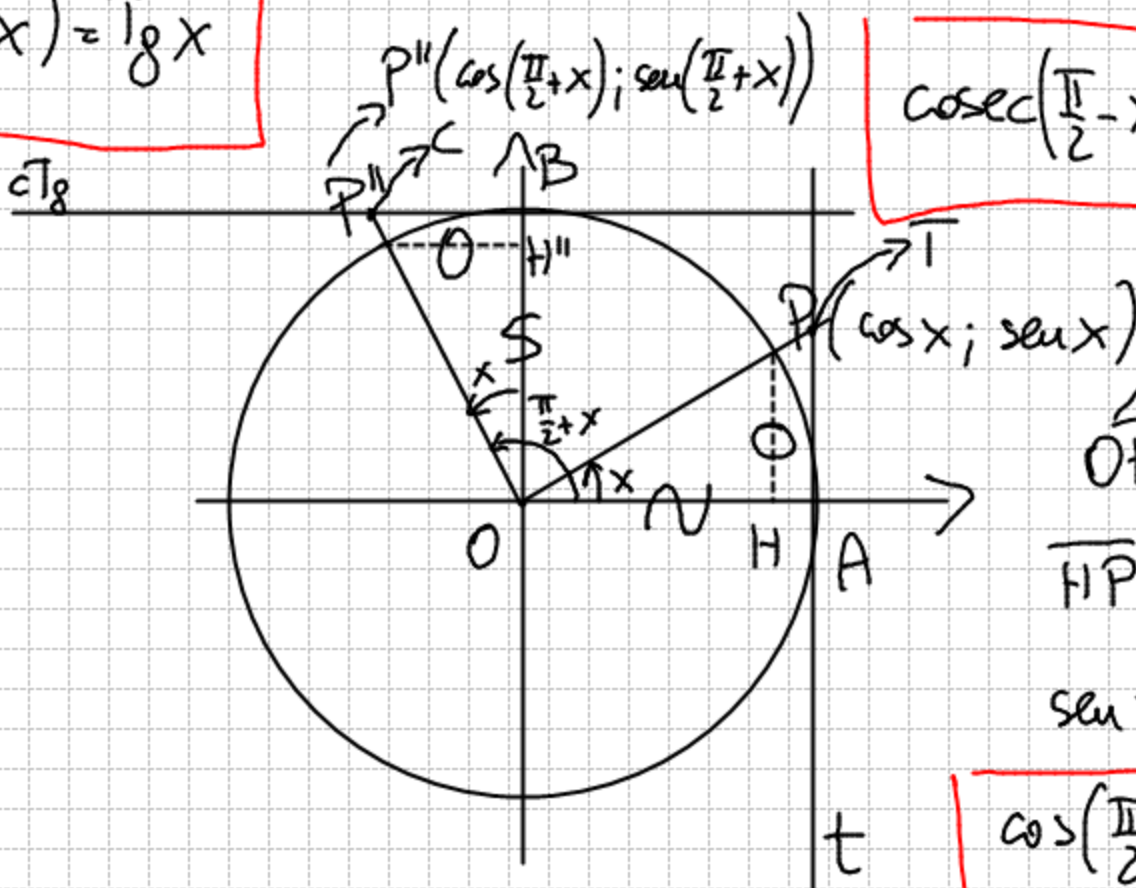
$$\boxed{\sec\left(\frac{\pi}{2}-x\right) = \operatorname{cosec} x}$$

$$\operatorname{cosec}\left(\frac{\pi}{2}-x\right) = \frac{1}{\operatorname{sen}\left(\frac{\pi}{2}-x\right)} = \frac{1}{\cos x} = \sec x$$

$$\boxed{\operatorname{cosec}\left(\frac{\pi}{2}-x\right) = \sec x}$$

$$\widehat{OHP} \cong \widehat{OH''P''}$$

$$\overline{HP} = -\overline{P''H''}$$

$$\operatorname{sen} x = -\cos\left(\frac{\pi}{2}+x\right)$$

$$\boxed{\cos\left(\frac{\pi}{2}+x\right) = -\operatorname{sen} x}$$

$$\overline{OH} = \overline{OH''}$$

$$\cos x = \operatorname{sen}\left(\frac{\pi}{2}+x\right)$$

$$\boxed{\operatorname{sen}\left(\frac{\pi}{2}+x\right) = \cos x}$$

$$\operatorname{Tg}\left(\frac{\pi}{2}+x\right) = \frac{\operatorname{sen}\left(\frac{\pi}{2}+x\right)}{\cos\left(\frac{\pi}{2}+x\right)} = -\frac{\cos x}{\operatorname{sen} x}$$

$$\boxed{\operatorname{Tg}\left(\frac{\pi}{2}+x\right) = -\operatorname{ctg} x}$$

$$\sec\left(\frac{\pi}{2}+x\right) = \frac{1}{\cos\left(\frac{\pi}{2}+x\right)} = -\frac{1}{\operatorname{sen} x} = -\operatorname{cosec} x$$

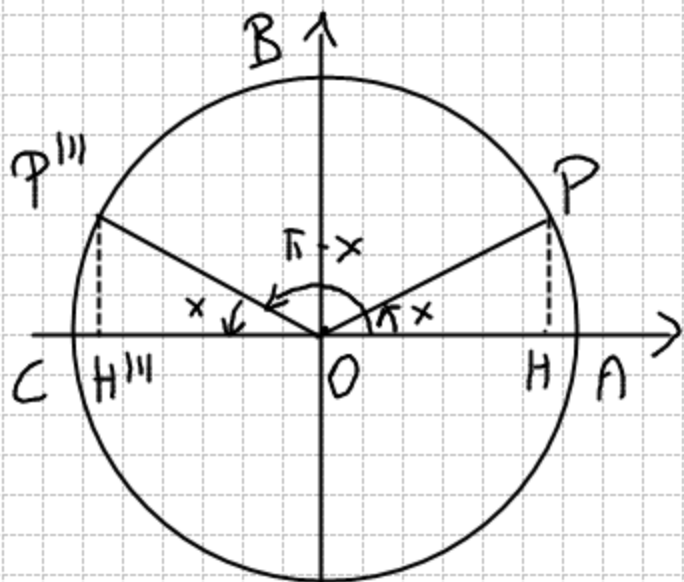$$\boxed{\sec\left(\frac{\pi}{2}+x\right) = -\operatorname{cosec} x}$$

$$\operatorname{cosec}\left(\frac{\pi}{2}+x\right) = \frac{1}{\operatorname{sen}\left(\frac{\pi}{2}+x\right)} = \frac{1}{\cos x} = \sec x$$

$$\boxed{\operatorname{cosec}\left(\frac{\pi}{2}+x\right) = \sec x}$$

$$\operatorname{ctg}\left(\frac{\pi}{2}+x\right) = \frac{\cos\left(\frac{\pi}{2}+x\right)}{\operatorname{sen}\left(\frac{\pi}{2}+x\right)} = -\frac{\operatorname{sen} x}{\cos x} = -\operatorname{tg} x$$

$$\boxed{\operatorname{ctg}\left(\frac{\pi}{2}+x\right) = -\operatorname{Tg} x}$$

$\pi - x, \quad \pi + x$

$$\widehat{OHP} \cong \widehat{OH'''P'''}$$

$$\overline{HP} = \overline{H'''P'''}$$

$$\boxed{\text{sen}\left(\pi - x\right) = \text{sen } x}$$

$$\overline{OH} = -\overline{OH'''}$$

$$\boxed{\cos\left(\pi - x\right) = -\cos x}$$

$$Tg\left(\pi - x\right) = \frac{\text{sen}\left(\pi - x\right)}{\cos\left(\pi - x\right)} = \frac{\text{sen } x}{-\cos x} = -Tg\, x$$

$$\boxed{Tg\left(\pi - x\right) = -Tg\, x}$$

$$\boxed{ctg\left(\pi - x\right) = -ctg\, x}$$

$$\boxed{\sec\left(\pi - x\right) = -\sec x}$$

$$\boxed{\text{cosec}\left(\pi - x\right) = \text{cosec } x}$$

$$\frac{3}{2}\pi - x \; ; \; \frac{3}{2}\pi + x$$
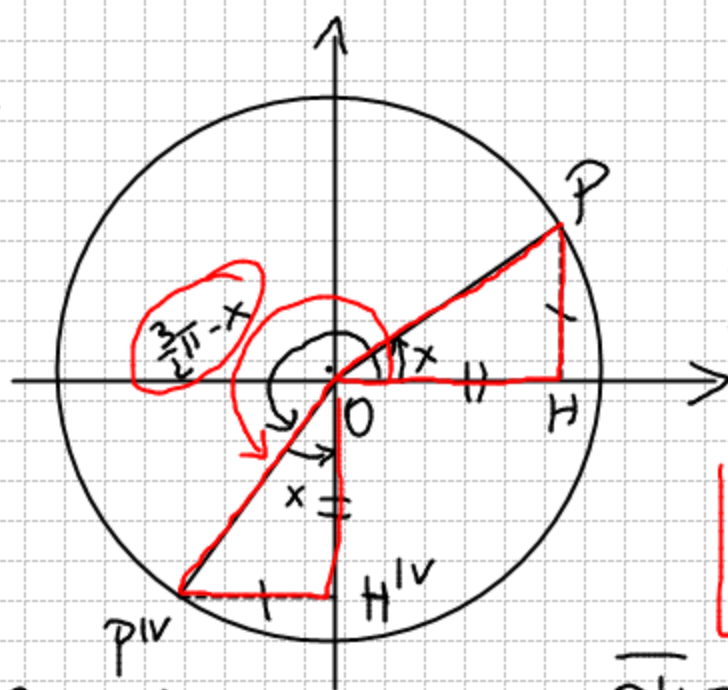
$$\widehat{OHP} \cong \widehat{OP^{IV}H^{IV}}$$

$$\overline{HP} = -\overline{P^{IV}H}$$

$$\text{sen}\, x = -\cos\left(\frac{3}{2}\pi - x\right)$$

$$\boxed{\cos\left(\frac{3}{2}\pi - x\right) = -\text{sen}\, x}$$

$$Tg\left(\frac{3}{2}\pi - x\right) = \frac{\text{sen}\left(\frac{3}{2}\pi - x\right)}{\cos\left(\frac{3}{2}\pi - x\right)} = \frac{-\cos x}{-\text{sen}\, x} = ctg\, x$$

$$\boxed{Tg\left(\frac{3}{2}\pi - x\right) = cTg\, x}$$

$$\overline{OH} = -\overline{H^{IV}O}$$

$$\cos x = -\text{sen}\left(\frac{3}{2}\pi - x\right)$$

$$\boxed{\text{sen}\left(\frac{3}{2}\pi - x\right) = -\cos x}$$

$$cTg\left(\frac{3}{2}\pi - x\right) = \frac{\cos\left(\frac{3}{2}\pi - x\right)}{\text{sen}\left(\frac{3}{2}\pi - x\right)} = \frac{-\text{sen}\, x}{-\cos x} = Tg\, x$$

$$\boxed{cTg\left(\frac{3}{2}\pi - x\right) = Tg\, x}$$

$$\sec\left(\frac{3}{2}\pi - x\right) = \frac{1}{\cos\left(\frac{3}{2}\pi - x\right)} = -\frac{1}{\text{sen}\, x} = -\cosec x$$
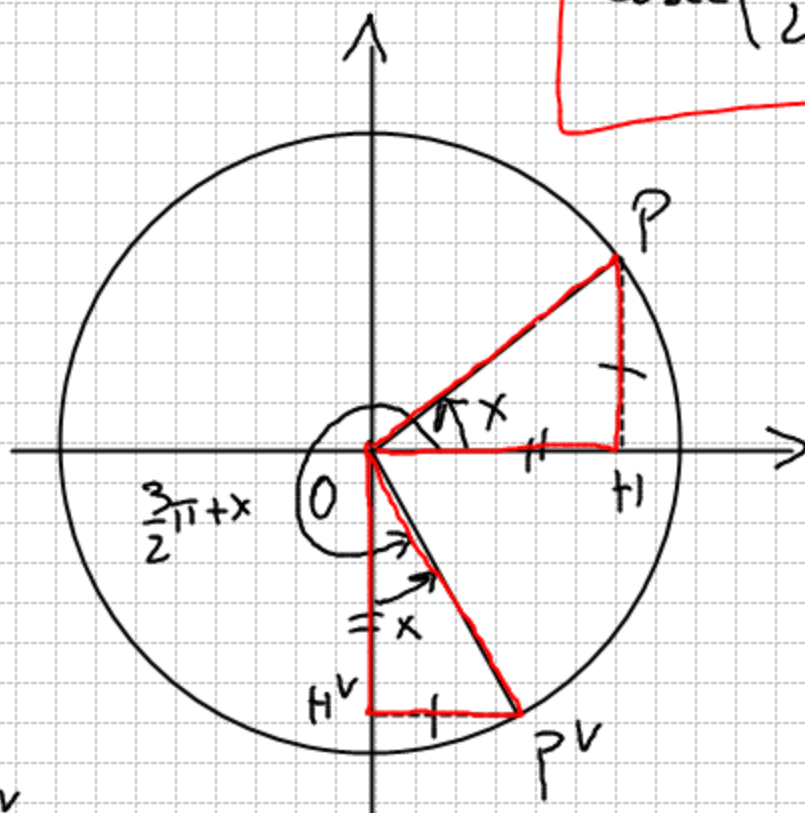
$$\boxed{\sec\left(\frac{3}{2}\pi - x\right) = -\cosec x}$$

$$\cosec\left(\frac{3}{2}\pi - x\right) = \frac{1}{\text{sen}\left(\frac{3}{2}\pi - x\right)} = -\frac{1}{\cos x} = -\sec x$$

$$\boxed{\cosec\left(\frac{3}{2}\pi - x\right) = -\sec x}$$

$$\widehat{OHP} \cong \widehat{OH^{V}P^{V}}$$

$$\overline{HP} = \overline{H^{V}P^{V}}$$

$$\text{sen}\, x = \cos\left(\frac{3}{2}\pi + x\right)$$

$$\boxed{\cos\left(\frac{3}{2}\pi + x\right) = \text{sen}\, x}$$

$$\overline{OH} = -\overline{OH^{V}}$$

$$\cos x = -\text{sen}\left(\frac{3}{2}\pi + x\right)$$

$$\boxed{\text{sen}\left(\frac{3}{2}\pi + x\right) = -\cos x}$$

$$Tg\left(\frac{3}{2}\pi + x\right) = \frac{\text{sen}\left(\frac{3}{2}\pi + x\right)}{\cos\left(\frac{3}{2}\pi + x\right)} = \frac{-\cos x}{\text{sen}\, x} = -ctg\, x$$

$$\boxed{Tg\left(\frac{3}{2}\pi + x\right) = -ctg\, x}$$

$$cTg\left(\frac{3}{2}\pi + x\right) = \frac{\cos\left(\frac{3}{2}\pi + x\right)}{\text{sen}\left(\frac{3}{2}\pi + x\right)} = \frac{\text{sen}\, x}{-\cos x} = -Tg\, x$$
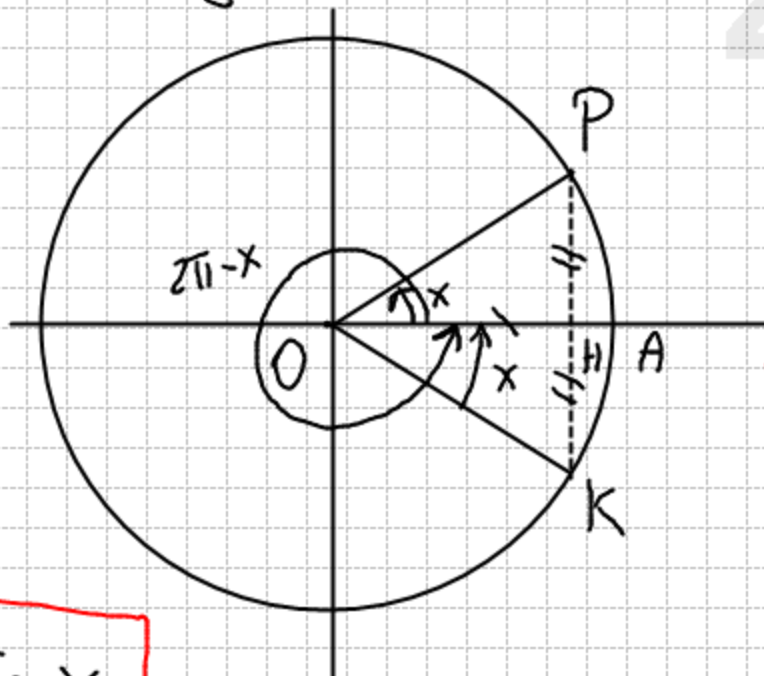
$$\boxed{cTg\left(\frac{3}{2}\pi + x\right) = -Tg\, x}$$

$$\sec\left(\frac{3}{2}\pi + x\right) = \frac{1}{\cos\left(\frac{3}{2}\pi + x\right)} = \frac{1}{\text{sen}\, x} = \cosec x$$

$$\boxed{\sec\left(\frac{3}{2}\pi + x\right) = \cosec x}$$

$$\boxed{\cosec\left(\frac{3}{2}\pi + x\right) = -\sec x}$$

$2\pi - x = -x$ è analogo di $-x$

$\widehat{OHP} \cong \widehat{OKH}$

$\overline{HP} = -\overline{KH}$

$\text{sen } x = -\text{sen}(2\pi - x)$

$$\boxed{\text{sen}(2\pi - x) = -\text{sen } x}$$

$\overline{OH} = \overline{OH}$

$\cos x = \cos(2\pi - x)$

$$\boxed{\cos(2\pi - x) = \cos x}$$

$$\boxed{\text{tg}(2\pi - x) = -\text{tg } x}$$

$$\boxed{\text{ctg}(2\pi - x) = -\text{ctg } x}$$

$$\boxed{\sec(2\pi - x) = \sec x}$$

$$\boxed{\text{cosec}(2\pi - x) = -\text{cosec } x}$$