

uson do la regola cos (0+2kt) = 205(0); m(0+2kt) = 2m(0) Idec 0 < x - 4T < 2TT 411 2 # sen(x) = sen(x-6T)P=(rwod, rnnd) (x,y) -> (r,0) (coordinate polari)

Tongente

$$t_g(0) = \underline{m0} \quad (\omega 0 \neq 0)$$

$$(1, t_g 0)$$

NB,

$$t_{S}(\Theta+\pi)=t_{S}(\Theta)$$

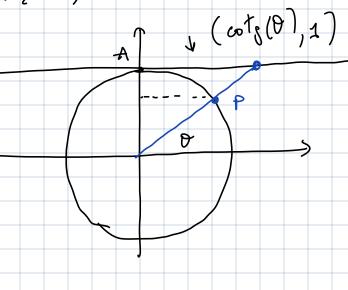
$$t_{g}(\underline{T}) = \infty (?)$$

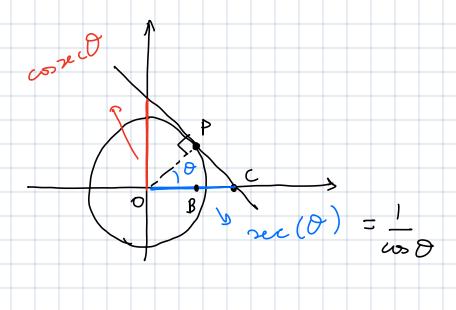
$$t_{5}\left(\frac{3}{2}\pi\right)=-\infty$$

$$\cot \xi(\theta) = \frac{\cos \theta}{\sin \theta}$$

$$\cot_{\beta}(\theta) = \frac{1}{t_{\beta}(\theta)} = t_{\beta}(\frac{\pi}{2} - \theta)$$

$$1: m\theta = AB : cos\theta$$





Schop e mule a 0 B

Sc: 1 = 1: 000

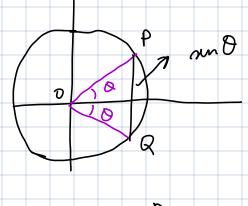
Note bene $1 = rec(0) \cdot 6000$

Le formule di addinone

Facciomo la deplicosione

ore e di

cree $\frac{1}{2}$ (m28)



qui di $m(2\theta) = 2 m\theta \cos\theta$ Per col volore il coseno. $\cos^2(2\theta) = 1 - \sin^2(2\theta) = 1 - 4 \sin^2\theta \cos^2\theta$ $= (\omega^2\theta + m^2\theta)^2 - 4 m^2\theta \omega^2\theta$ $= \cos^{4}\theta + \sin^{4}\theta - 2 \sin^{2}\theta \cos^{2}\theta = (\cos^{2}\theta - \sin^{2}\theta)^{2}$ quanti $\cos(2\theta) = \left[\cos^2(\theta) - \sin^2(\theta)\right]$ (puché mos d' puo enere) la lunghe so del se prounts PQ E (× def) [= V(cos O - ιος φ) + (nn O - nn φ) 2

=
$$\sqrt{\cos^2 \theta + \cos^2 \phi} - 2\cos\theta\cos\phi + m^2\theta + m^2\phi - 2m\theta \cos\phi$$

(guerdiams L^2 con mon serve la radia)

= $2 - 2(\cos\theta\cos\phi + \sin\theta\sin\phi)$

Dectro conto

 $NQ = 1 - \cos(\theta - \phi)$
 $NQ = 1 - \cos(\theta - \phi) + (1 - \cos(\theta - \phi))^2 = \cos(\theta - \phi)$
 $\sin^2(\theta - \phi) + 1 + \cos^2(\theta - \phi) - 2\cos(\theta - \phi)$

ugue se en do $\cos(\theta - \phi) = \cos\theta\cos\phi + \sin\theta\cos\phi$
 $\cos(\theta + \phi) = \cos(\theta)\cos(\phi) - \sin\theta\sin\phi$

Funzion trigonometricle inverse: m x = y. par -12921 he 2 soluzions in [0, ztt] che do the n prendo $-\frac{\pi}{2} < x < \frac{\pi}{2}$ 1 sola Soluzione quelle la chamo x = arc su y N.B. $\omega \times_0 = \sqrt{1-y_0^2}$ $(\overline{x} \ge 0!)$ encomy: $C-1,13 \longrightarrow C-\frac{\pi}{2},\frac{\pi}{2}$ un e su,