Usends le formule possibilité stirée le seg. apressione
$$3/41/2022$$
 in funione di $t = \tan \frac{t}{2}$

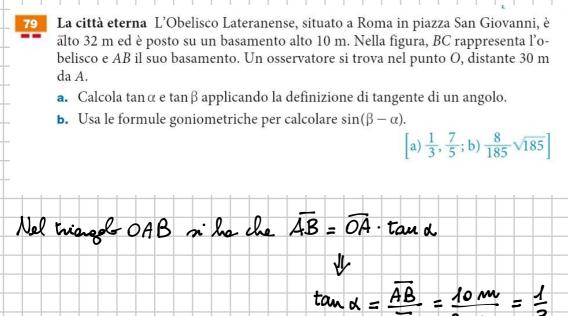
$$\frac{1 + \cos \alpha - \sin \alpha}{2 + 2\cos \alpha + \sin \alpha} = \frac{1 - t}{t + 2}$$

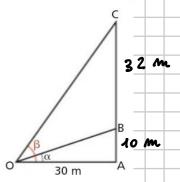
$$\frac{1 + t^2}{4 + t^2} - \frac{2t}{4 + t^2}$$

$$\frac{1 + t^2}{4 + t^2} + \frac{2t}{4 + t^2}$$

$$\frac{2(4 + t^2) + 2 - 2t^2 + 2t}{4 + t^2} = \frac{2 - 2t}{4 + t^2}$$

$$\frac{2(4 - t)}{4 + 2t} = \frac{2(1 - t)}{2(2 + t)} = \frac{1 - t}{t + 2}$$





Nel triangle OAB or ha che
$$\overline{AB} = \overline{OA} \cdot \tan a$$
 $tan \alpha = \frac{\overline{AB}}{\overline{OA}} = \frac{10 \text{ m}}{30 \text{ m}} = \frac{1}{3}$
 $tan \beta = \frac{\overline{AC}}{\overline{OA}} = \frac{42 \text{ m}}{30 \text{ m}} = \frac{47}{5}$
 $sin (B-d) = \sin \beta \cos d - \cos \beta \sin d = (A)$
 $sin (B-d) = \sin \beta \cos d - \cos \beta \sin d = (A)$
 $sin \alpha = \frac{1}{3}$
 $sin \alpha = \frac{1}{3}$
 $sin \alpha = \frac{1}{3} \cos \alpha$
 $sin \alpha =$

EQUAZIONI GONIOMETRICHE ELEMENTAZI

Sinx = m

CODX = M

taux = m

on mER

1) sin x = m

a) [m |>1 => eq. impossibile

ES. Sinx = - 2 IMPOSSIBILE

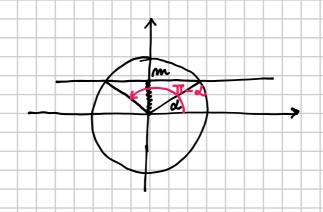
b) me (1 => eq. con infinite solutioni

Sinx=m

X = arisin (m) = & trow un ongot & il cui

sers é m

x= & + 2KT $V = \pi - \chi + 2K\pi$



ESEMPI

- $\sin x = \frac{1}{2}$ $d = \arcsin(\frac{1}{2}) = \frac{\pi}{6}$

T- T

- $\sin x = \frac{1}{3}$ $d = \arcsin\left(\frac{1}{3}\right)$

X = Ousing 1 +2KT V X= 17-ousing +2KT