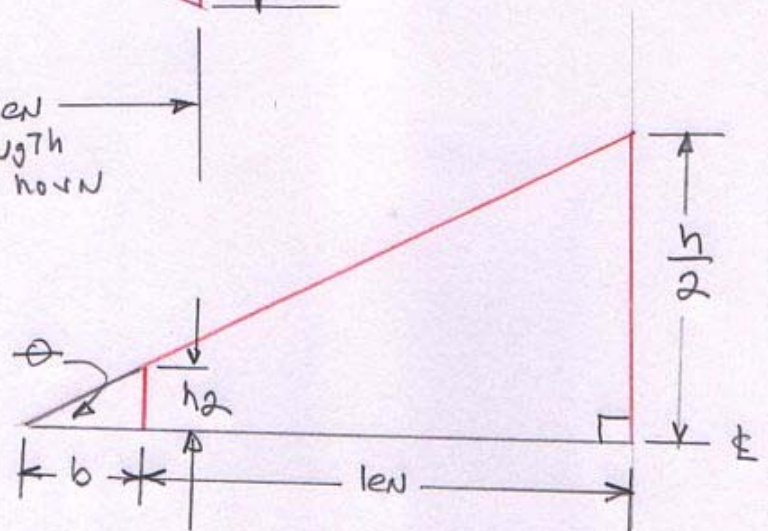


$$b = \frac{h_2 \text{ len}}{\frac{h}{2} - h_2}$$



$$\theta = \tan^{-1} \left( \frac{h}{2(b + \text{len})} \right) = \tan^{-1} \left( \frac{h_2}{b} \right)$$

TRACTRIX FORMULA :

$$\text{len} = a \log_e \left( \frac{a + \sqrt{a^2 - r^2}}{r} \right) - \sqrt{a^2 - r^2}$$

$\text{len} = \text{DISTANCE FROM MOUTH TO SOME POINT ALONG HORN}$

$a = \text{radius of ROUND area equal to rectangular area of MOUTH}$

$r = \text{radius of ROUND area equal to rectangular area of POINT}$