

tg δ = R/h ⇒ R = h tg δ

tg α = R/h' ⇒ R = h' tg α

h tg δ = h' tg α

h = h' tg α / tg δ

h' = h tg δ / tg α

tg β = tg δ × 1/h' × tg α = h tg δ / h' tg α

tg α = R/h'

tg δ = R/h

h = R / tg δ

tg β = R/h'

h' = R / tg β

R / tg δ = R / (tg α × tg β)

R / R = 1 / (tg α × tg β)

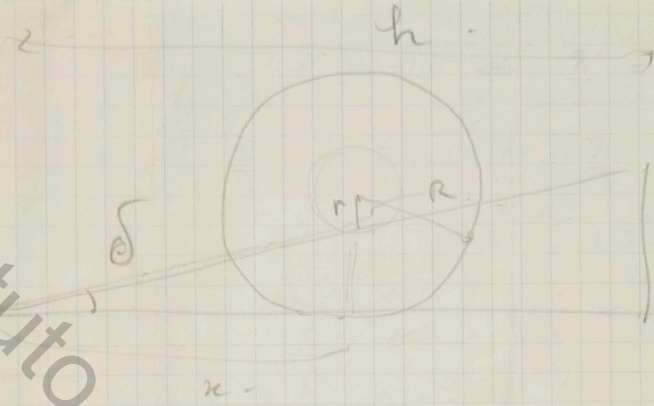
tg δ = tg α × tg β

tg α = tg δ / tg β



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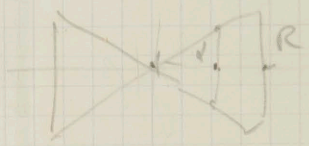
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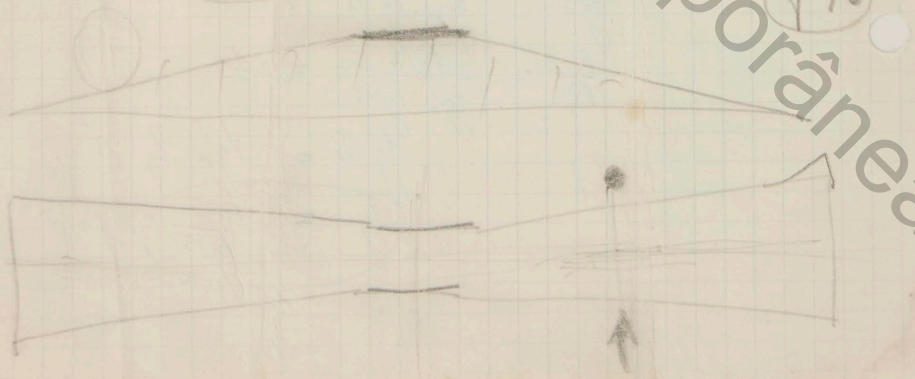
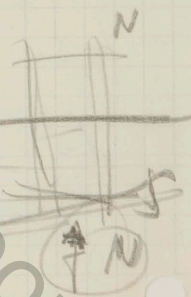
$$\gamma \theta = \frac{r}{h}$$

$$\gamma \alpha = \frac{R}{hh'}$$

$$\gamma \beta = \frac{r}{h-x} = \frac{R}{h} \frac{hh'}{R}$$



$$2 \frac{R}{h}$$



$$\text{tg } \beta = \frac{h'}{h} \quad | \quad \left[h' = \frac{R}{\text{tg } \alpha} \right] \Rightarrow \text{tg } \alpha = \frac{R}{h'} \quad (2)$$

$$h = \frac{R}{\text{tg } \delta} = \frac{R}{\text{tg } \alpha \cdot \text{tg } \beta}$$

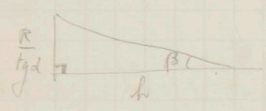
~~$$\text{tg } \beta = \frac{R}{h'}$$

$$\text{tg } \alpha = \frac{R}{h'}$$~~

$$\text{tg } \alpha = \frac{R}{h'}$$

$$\text{tg } \alpha \cdot \frac{\text{tg } \beta}{\text{tg } \delta} = \frac{h'/h}{h' + h' \text{tg } \beta}$$

(2); (R); (tg α) (h')



+ h' = hipotenusa

$$\text{tg } \beta = \frac{R}{\text{tg } \alpha} \cdot \frac{1}{h} = \frac{R}{h \cdot \text{tg } \alpha}$$

$$h = \frac{R}{\text{tg } \alpha \cdot \text{tg } \beta}$$

$$\text{tg } \beta = \frac{h'}{h} = \frac{R}{h \cdot \text{tg } \alpha} \Rightarrow h = \frac{R}{\text{tg } \alpha \cdot \text{tg } \beta}$$

$$\text{tg } \delta = \frac{R}{h} \Rightarrow h = \frac{R}{\text{tg } \delta}$$

$$\frac{R}{\text{tg } \delta} = \frac{R}{\text{tg } \alpha \cdot \text{tg } \beta} \Rightarrow \text{tg } \alpha = \frac{\text{tg } \delta}{\text{tg } \beta}$$

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R

R

$$R^2 + \frac{R^2}{\lg^2 \alpha}$$

$$= x^2$$

$$= \frac{R^2 \lg^2 \alpha + R^2}{\lg^2 \alpha} = x^2$$

$$R^2 (\lg^2 \alpha + 1) = x^2 \lg^2 \alpha$$

$$x = \frac{R}{\sqrt{1 + \lg^2 \alpha}}$$

$$L = S = \frac{1}{4}$$

$$\lg \beta = \frac{\lg S}{\lg 2} = 1$$

$$\beta = \frac{1}{4}$$

$$\begin{array}{r} 187000 \\ 57800 \\ \hline 129200 \end{array}$$

$$\begin{array}{r} 8.092,00 \\ 578,00 \\ \hline 8670,00 \end{array}$$

$$\begin{array}{r} 1 \\ \times 1 \\ \hline 1 \\ 2 \\ \hline 21 \\ \times 1 \\ \hline 21 \\ 2 \\ \hline 22 \\ \times 1 \\ \hline 22 \end{array}$$