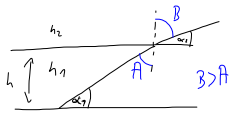
6.2) $N_1 = 300$ $h = 50m$
$N_2 = 250$ $\alpha = 1°$
$R = 6371km$



eq. 6.8

$$\frac{R+h}{R}\left(\frac{h_2}{h_1}\right) = \frac{\cos\alpha_1}{\cos\alpha_2}$$

$N_i = (h_i - 1)\cdot 10^6$; $i = 1,2$

$\alpha_2 < \alpha_1$

$\alpha_2 = 0,85$

$$\Rightarrow \alpha_2 = \arccos\left(\cos\alpha_1 \cdot \left(\frac{R h_1}{(R+h)h_2}\right)\right) \approx 1,0093°$$

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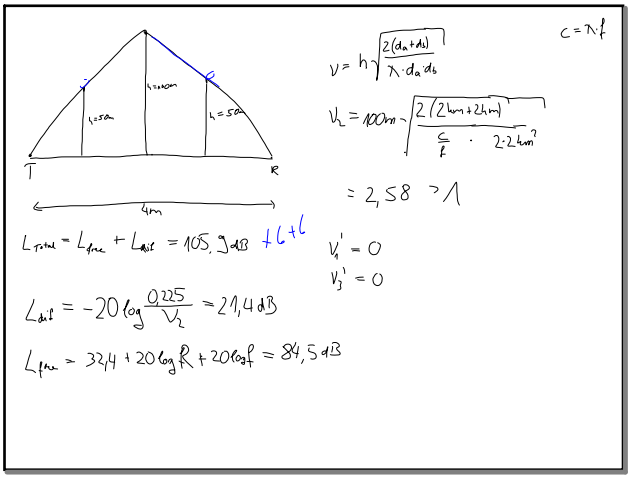

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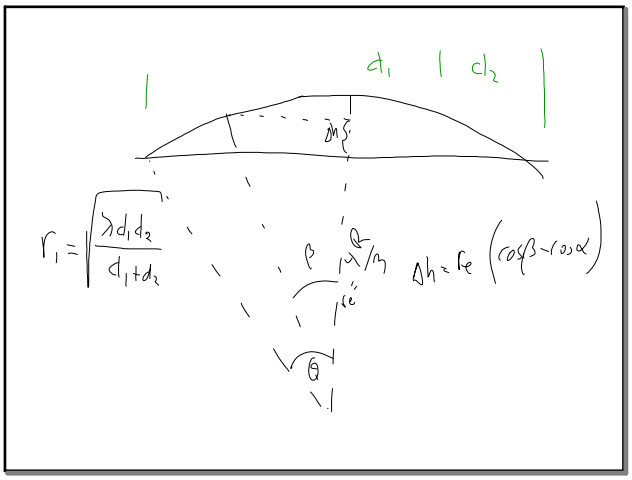

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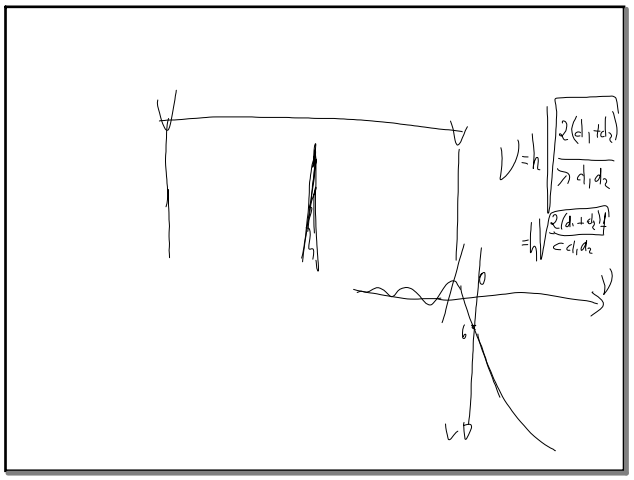

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