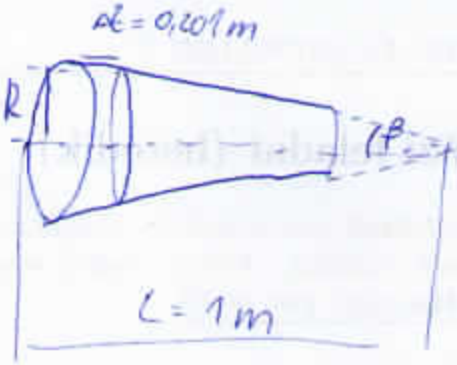
$R = 0{,}1\,m$

$\Delta z = 0{,}201\,m$

$\Delta z^*$

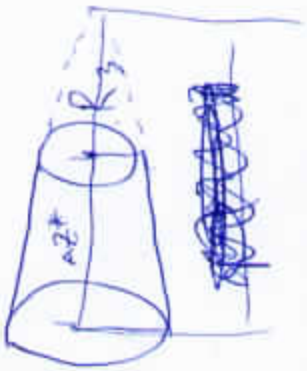


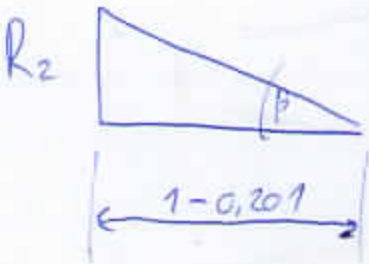


$\tan\beta = \frac{R}{L} = 0{,}1$

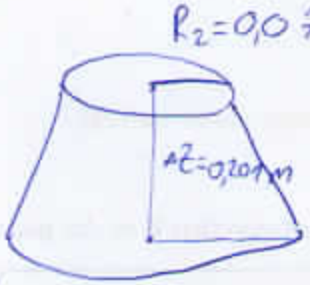
$R_1 = 0{,}1\,m$

$\beta = 5{,}7106°$




$R_2 = 0{,}799 \cdot \tan\beta = 0{,}0799\,m$




$V = \frac{1}{3} \cdot \pi \left(R_1^2 + R_1 R_2 + R_2^2\right) \Delta z$

$\pi R_1 V_1 = R_2 \pi V_2 = R_3 \pi V_3$

$R_1 = 0{,}1\,m \quad = 0{,}00513\,m^3 \rightarrow \quad dm^3$

$A_1 V_1 = A_2 V_2 = A_3 V_3$

$V_1 = V_2 =$


$\frac{V_2}{V_1} = \frac{A_1}{A_2} = \frac{\pi R_1^2}{\pi R_2^2} = \frac{0{,}1\,m^2}{0{,}0799\,m^2} =$

$\frac{V_3}{V_2} = \frac{A_2}{A_3} = \frac{\pi R_2^2}{\pi R_3^2}$

$V_2 = \frac{1}{3} \cdot \pi \cdot \left(R_2^2 + R_2 R_3 + R_3^2\right) \cdot \Delta z^*$