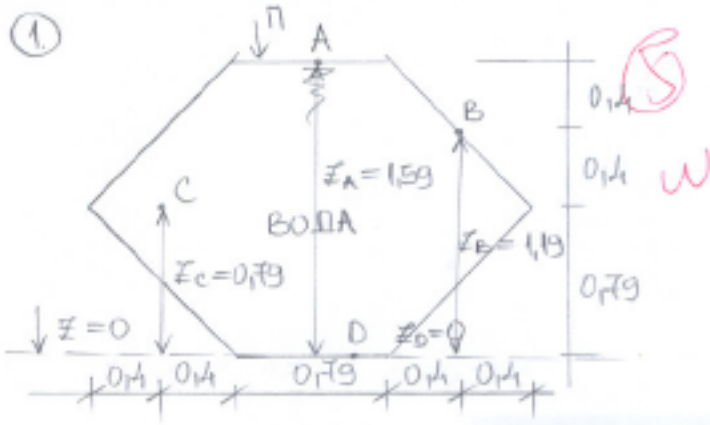
1.



$\angle = 33{,}3$

$\beta = 6$

$a = \frac{\angle + \beta}{50} = 0{,}786\,m \approx 0{,}79\,m$

$p_A = 0$

$p_{abs\,A} = p_{atm} + p_A \Rightarrow p_A = 0$

$p_{abs\,A} \approx 100$ KPa, $p_{atm} \approx 100$ KPa

$\rho_v = 1000\,kg/m^3$

$\frac{p_A}{\rho_A \cdot g} + z_A = \Pi \Rightarrow z_A = \Pi = 1{,}59\,m$ ($p_A = 0$)

$p_B = \rho_v g (\Pi - z_B)$

$p_B = 1000\,\frac{kg}{m^3} \cdot 9{,}81\,m/s^2 \cdot (1{,}59\,m - 1{,}19\,m)$

$p_B = 3924\,Pa = 3{,}92\,KPa$

$p_C = \rho_v g (\Pi - z_C)$

$p_C = 1000\,\frac{kg}{m^3} \cdot 9{,}81\,m/s^2 (1{,}59\,m - 0{,}79\,m)$

$p_C = 7848\,Pa \approx 7{,}85\,KPa$

$p_D = \rho_v g (\Pi - z_D)$

$p_C = 1000\,\frac{kg}{m^3} \cdot 9{,}81\,m/s^2 \cdot 1{,}59\,m$

$p_C = 15597{,}9\,Pa \approx 15{,}60\,KPa$

$p_{abs\,A} = 100$ KPa

$p_{abs\,B} = p_{atm} + p_B = 103{,}92$ KPa

$p_{abs\,C} = p_{atm} + p_C = 107{,}85$ KPa

$p_{abs\,D} = p_{atm} + p_D = 115{,}60$ KPa