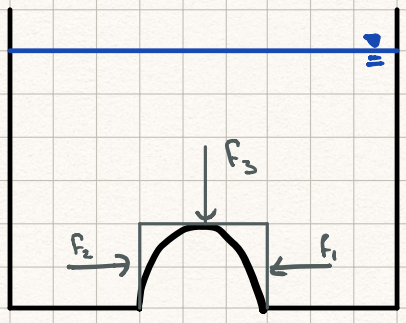
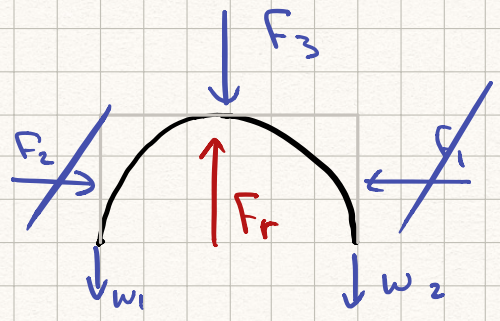
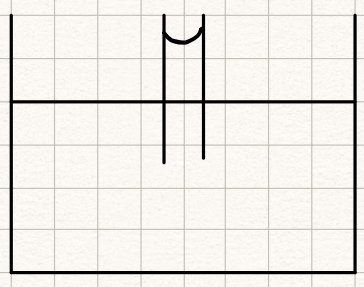


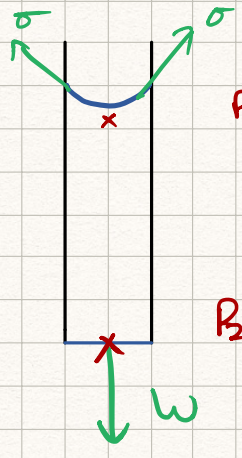


$$F_R - F_3 - W_1 - W_2 = 0$$

$$R_R = F_3 - W_1 - W_2$$

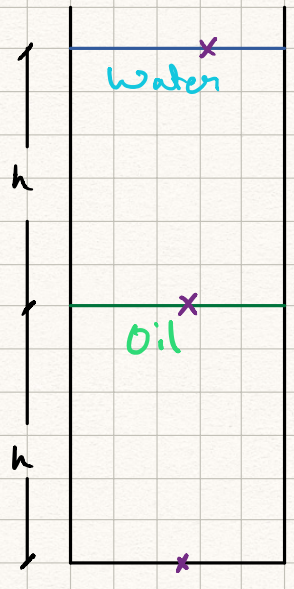
$$W = \gamma \forall$$





$P_3 = -\rho g h$ (* Extra Info)

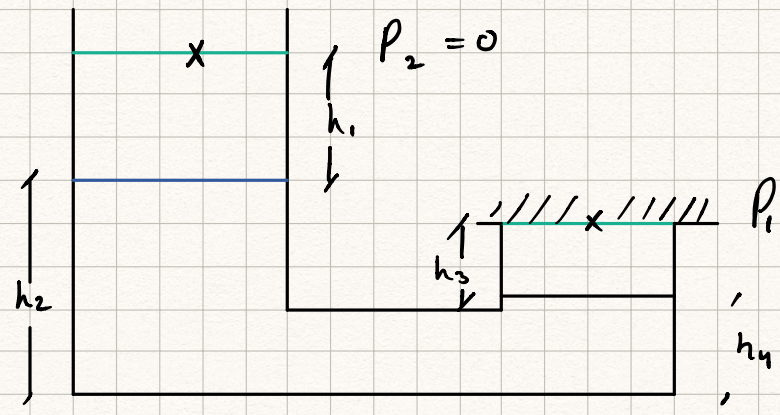
$P_2 = 0$



$P_1 = 0$

$P_2 = P_1 + \rho_{water}\, g\, h_{water}$

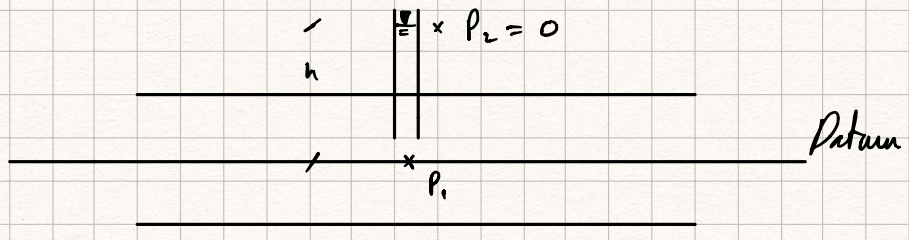
$P_3 = P_2 + \rho_{oil}\, g\, h_{oil}$



$$P_1 = P_1 + g(\rho_0 h_1 + \rho_w (h_2 - h_4) - \rho_0 h_3)$$

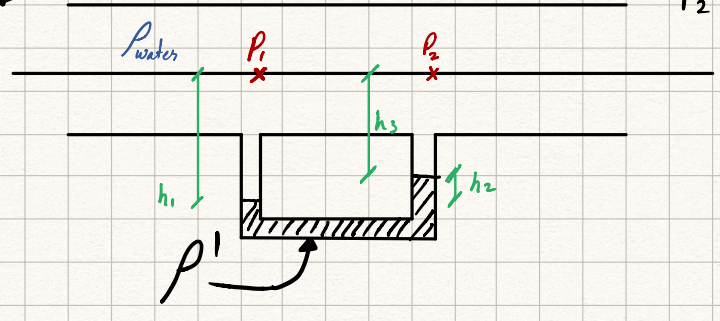
Equilibrium Equation : $P_1 \pm \Sigma \rho g h = P_2$

I



$$P_1 = P_2 + \rho g h$$

II



$$P_2 = P_1 + \rho g h_1 - \rho' g h_2 - \rho g h_3$$

Next Class Boyant force