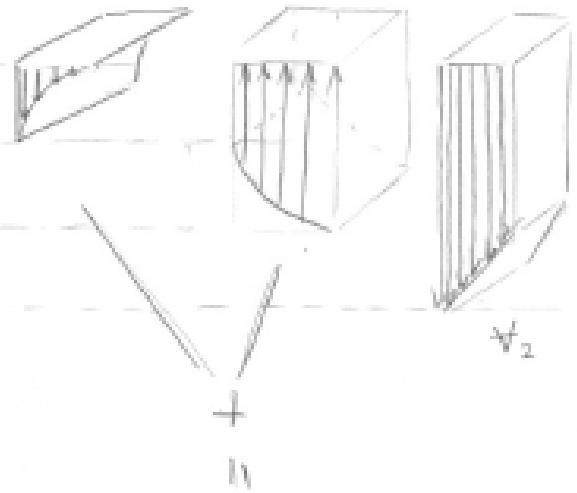
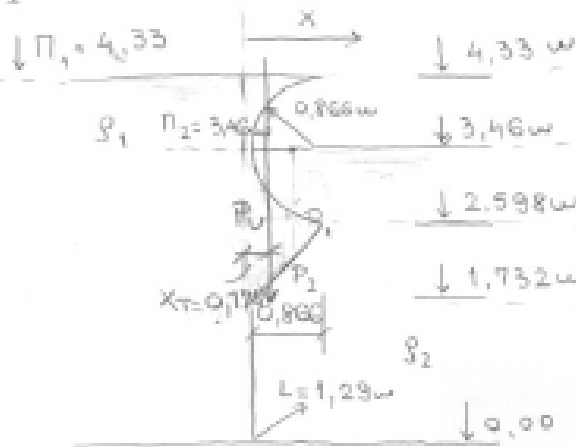


3.1



$$a = 0,866 \text{ m}$$

$$\rho_1 = 0,943 \text{ kg/dm}^3$$

$$\rho_2 = 1,043 \text{ kg/dm}^3$$

$$V_1 = \frac{\pi^2 \cdot \pi}{2} \cdot L = 1,518 \text{ m}^3 \checkmark$$

$$P_1 = \rho_1 \cdot g \cdot V_1 = 14,042 \text{ kN} \checkmark$$

$$V_2 = \frac{\pi \cdot a^2 \cdot L}{0,866} + \frac{\pi \cdot a^2 \cdot 0,866}{2} = 2,428 \text{ m}^3 \checkmark$$

$$P_2 = \rho_2 \cdot g \cdot V_2 = 22,46 \text{ kN} \checkmark$$

$$x_{T1} = 0,866 - \frac{4 \cdot \pi}{3\pi} = 0,498 \text{ m} \checkmark$$

$$P_{1,2} = P_1 - P_2 = 30,502$$

$$x_{T1,2} = \frac{1}{1,874} (1,499 \cdot 0,433 + 0,374 \cdot 0,28) = 0,402 \text{ m} \checkmark$$

$$V_{1,2} = \frac{0,866^2 \cdot \pi}{4} \cdot 1,29 = 0,759 \text{ m}^3 \checkmark$$

$$P_{1,2} = \rho_2 \cdot g \cdot V_{1,2} = 7,765 \text{ kN} \checkmark$$

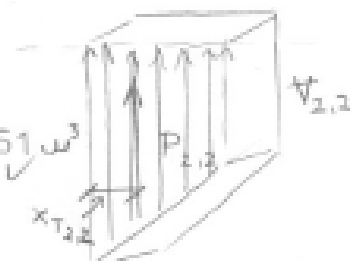
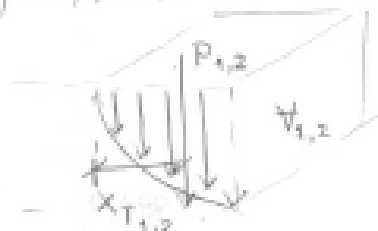
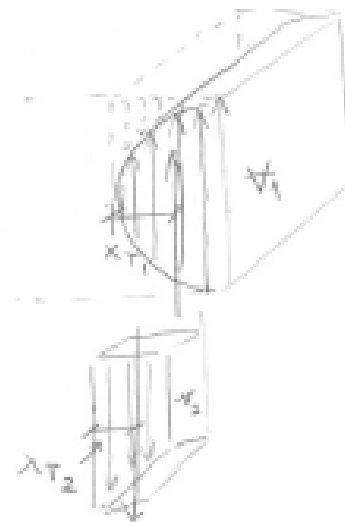
$$x_{T1,2} = 0,866 - \frac{4\pi}{3\pi} = 0,498 \text{ m} \checkmark$$

$$V_{2,2} = \frac{0,866^2}{1} \cdot 1,29 + \frac{0,866^2}{2} \cdot 1,29 = 1,451 \text{ m}^3 \checkmark$$

$$P_{2,2} = \rho_2 \cdot g \cdot V_{2,2} = 14,84 \text{ kN} \checkmark$$

$$x_{T2,2} = \frac{1}{1,724} (0,749 \cdot 0,433 + 0,374 \cdot 0,28) = 0,382 \text{ m} \checkmark$$

$$P_{U2} = +P_1 - P_2 + P_{1,2} + P_{2,2} = -1,343 \text{ kN} \checkmark$$



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$$X_T = \frac{P_1 \cdot X_{T_1} - P_2 \cdot X_{T_2} - P_{1,2} \cdot X_{T_{1,2}} + P_{2,2} \cdot X_{T_{2,2}}}{P_U} = 0,174 \text{ W} \checkmark$$