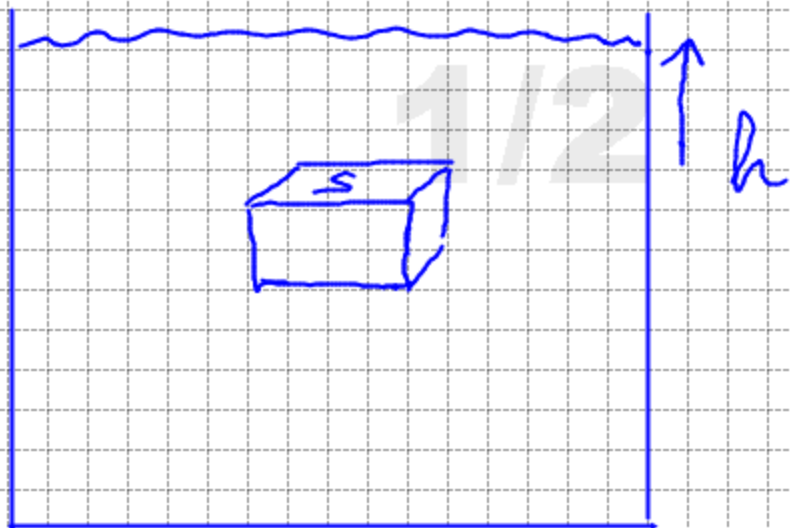


No 11 p. 140

$$\rho_{H_2O} = 1,03 \text{ g/cm}^3$$

$$S_{\text{ogc}} = 0,5 \text{ m}^2$$

$$h = 25 \text{ m}$$



$$p = \rho h \gamma + p_{\text{atm}}$$

$$\frac{1,03 \text{ g}}{1 \text{ cm}^3} = \frac{1,03 \cdot 10^3 \text{ kg}}{1 \cdot 10^6 \text{ m}^3} =$$

$$p = 1,03 \cdot 10^3 \text{ kg/m}^3 \cdot 25 \text{ m} \cdot 9,8 \text{ m/s}^2 =$$

$$252,35 \cdot 10^3 \text{ Pa} + 1,013 \cdot 10^5 \text{ Pa} =$$

$$1,03 \cdot 10^3 \text{ kg/m}^3$$

$$3,5365 \cdot 10^5 \text{ Pa} = 353650 \text{ Pa}$$

$$p = \frac{F}{S}$$

$$F = pS$$

$$F = 353650 \text{ Pa} \cdot 0,5 \text{ m}^2 =$$

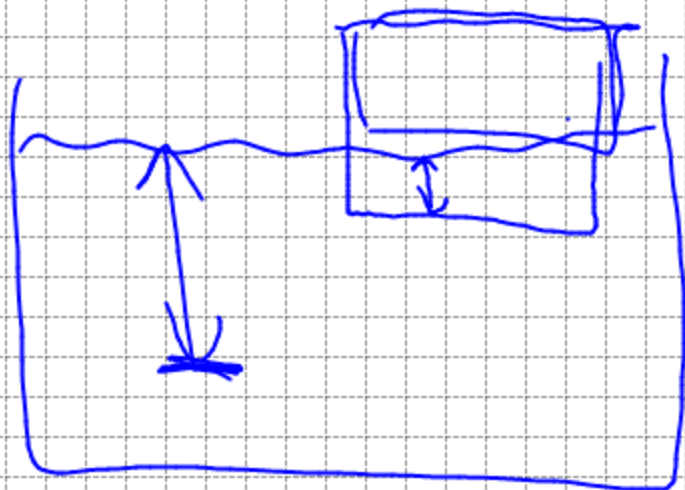
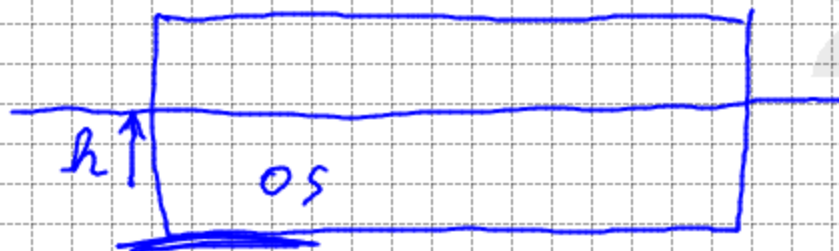
$$\boxed{176825 \text{ N}}$$

No 22

$$S = 75 \text{ cm}^2$$

$$h = 4,5 \text{ m}$$

$$\rho_{\text{H}_2\text{O}} = 1030 \text{ kg/m}^3$$



$$P = \rho h g + P_a$$

$$P = 1030 \text{ kg/m}^3 \cdot 4,5 \text{ m} \cdot 9,82 \text{ m/s}^2 + 0$$

$$P = 45423 \text{ Pa}$$

$$S = 75 \text{ cm}^2 \approx 75 \cdot 10^{-4} \text{ m}^2$$

$$F \approx P S = 45423 \text{ Pa} \cdot 7,5 \cdot 10^{-4} \text{ m}^2 =$$

$$\boxed{341 \text{ N}}$$