

str. 66 / úloha 328

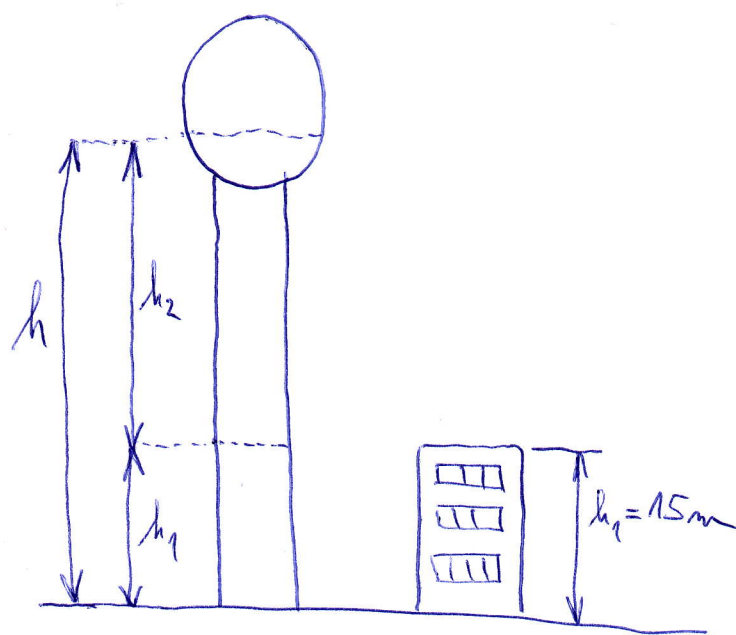
$$h = ? \text{ [m]}$$

$$h_1 = 15 \text{ m}$$

$$p_{h_2} = 0,2 \text{ MPa} = 200\,000 \text{ Pa}$$

$$g = 10 \frac{\text{N}}{\text{kg}}$$

$$\rho = 1000 \frac{\text{kg}}{\text{m}^3}$$



$$h = h_1 + h_2$$

$$h = 15 + 20$$

$$\underline{\underline{h = 35 \text{ m}}}$$

$$p_{h_2} = h_2 \cdot \rho \cdot g$$

$$h_2 = \frac{p_{h_2}}{\rho \cdot g}$$

$$h_2 = \frac{200\,000}{1000 \cdot 10}$$

$$\underline{\underline{h_2 = 20 \text{ m}}}$$

Hladina vody ve vodárenské věži musí být v 35 m nad zemí.