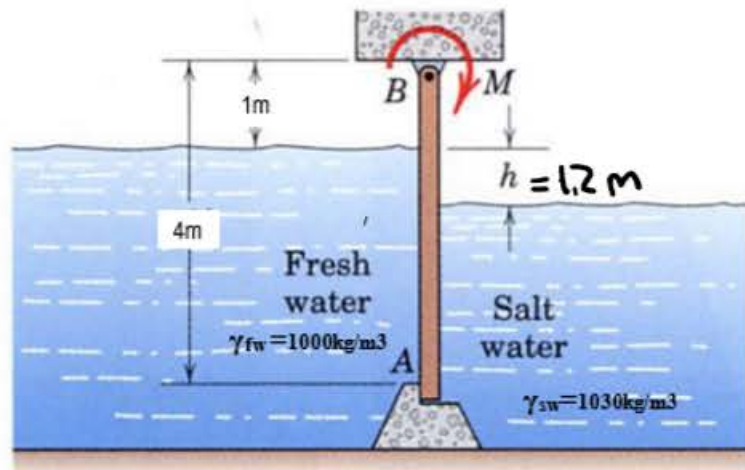




$$L = 3.00 \text{ m}$$

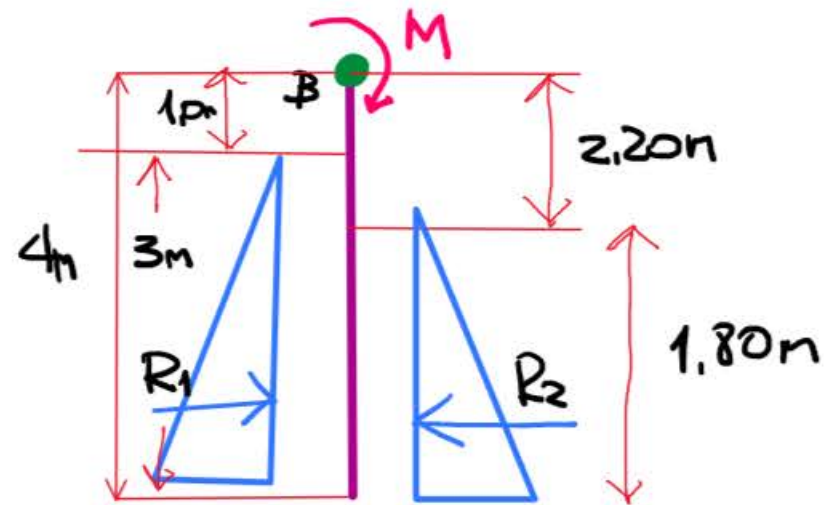
$$\gamma_f = 1000 \text{ kg/m}^3$$

$$\gamma_s = 1030 \text{ kg/m}^3$$

$$R_1 = \gamma_f \cdot 3\text{m} \cdot \frac{3\text{m}}{2} \cdot L$$

$$R_1 = 13.500 \text{ kg}$$

$$R_2 = \gamma_s \cdot 1.8\text{m} \cdot \frac{1.8\text{m}}{2} \cdot L \rightarrow R_2 = 5005.8 \text{ kg}$$



$$\sum M_B = R_1 \cdot \left(1 + \frac{2}{3} \cdot 3\text{m}\right) - R_2 \cdot \left(2.20 + \frac{2}{3} \cdot 1.8\text{m}\right) - M = 0$$

$$\sum M_B = 13.500 \text{ kg} \cdot 3\text{m} - 5005.8 \text{ kg} \cdot 3.4\text{m} - M = 0 \rightarrow M = 23480.28 \text{ kg} \cdot \text{m}$$