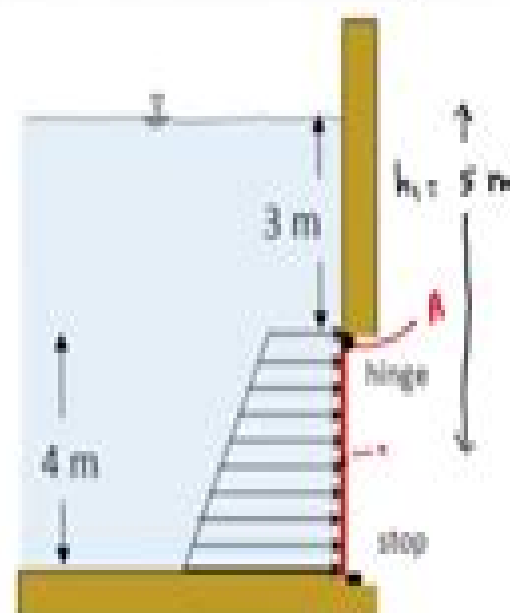


Calculate the force that the "stop" must exert on the bottom of the gate to hold the water back.



$$P = \frac{F_R}{A}$$

$$P = \rho g h$$

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

$$F_R = P \cdot A$$

$$= \rho \cdot A$$

$$= \rho \cdot g \cdot h$$



$$\sum M_i = 0;$$

$$F_R \cdot 3 - F_S \cdot 4 = 0$$

$$\Rightarrow F_S = \frac{F_R \cdot 3}{4} \Rightarrow F_S = \frac{F_R \cdot 3}{4}$$

# Fluid Statics Example Problems

**Daniel F McAuley**



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