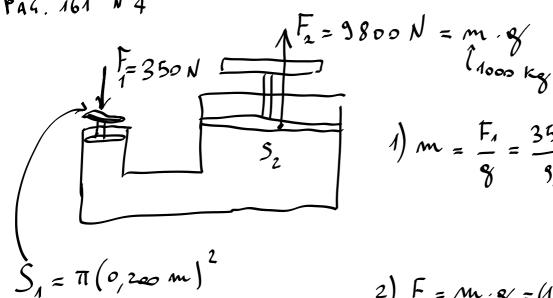
PA4. 161



$$0 N = m \cdot g$$

$$\int_{1000}^{1} kg$$

1) 
$$m = \frac{F_1}{8} = \frac{350 \text{ N}}{9.8 \text{ N}} = 35.7...\text{ kg}$$

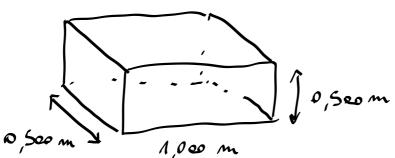
$$\approx 36 \text{ kg}$$

2) 
$$F = m \cdot g = (100 \text{ kg}) (9,8 \frac{N}{\text{kg}}) =$$
  
= 9800 N

$$\frac{F_1}{S_1} = \frac{F_2}{S_2}$$

3) 
$$\frac{F_{L}}{F_{1}} = \frac{8800 \,\text{N}}{350 \,\text{N}} = 28$$

$$S_{2} = \frac{S_{1}F_{2}}{F_{1}} = \frac{\pi (0,200 \text{ m})^{2}(8800 \text{ N})}{(350 \text{ N})} = \frac{3,5 \text{ m}^{2}}{3}$$



m = 100 Kg

FA = FA

2)

Area BASE · ol = 0,0973 m<sup>3</sup>

$$d = \frac{0,0973 \text{ m}^3}{(1,000 \text{ m})(0,500 \text{ m})} \approx 0,195 \text{ m}$$

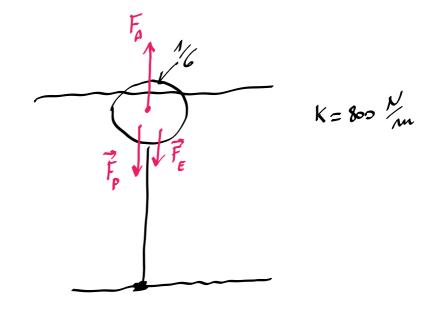
$$7$$
  $m = 10 \text{ kg}$ 
 $k = 0.30 \text{ m}$ 

$$d_{H_20} = 1018 \frac{\text{kg}}{\text{m}^2}$$

$$F_{\rho} = m g$$

$$F_{A} = Ol_{H_{2}O} \cdot \frac{5}{6} V \cdot g$$

$$F_{\epsilon} = K \otimes$$



$$\int_{3}^{\infty} M \cdot \chi = d \cdot \frac{5}{3} \frac{4}{3} \pi R^{3} \cdot \chi$$

$$98 + 800 \times = \frac{10}{9} \pi \cdot 1018 \cdot 9,8 \cdot (0,30)^{3}$$

$$340,753....$$

$$340,753....$$