

$$P = 100 \text{ N}$$

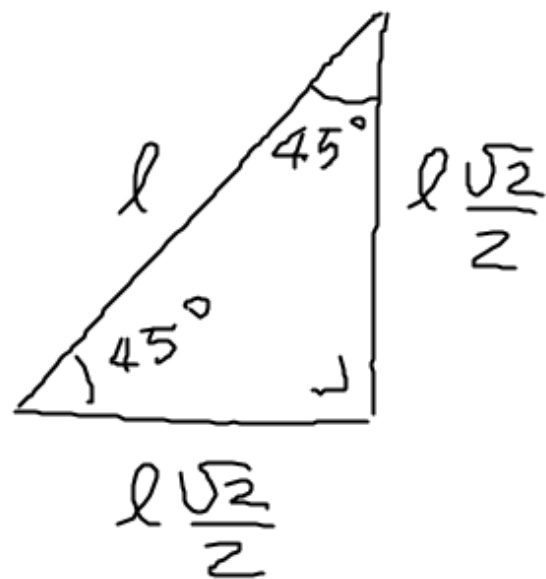
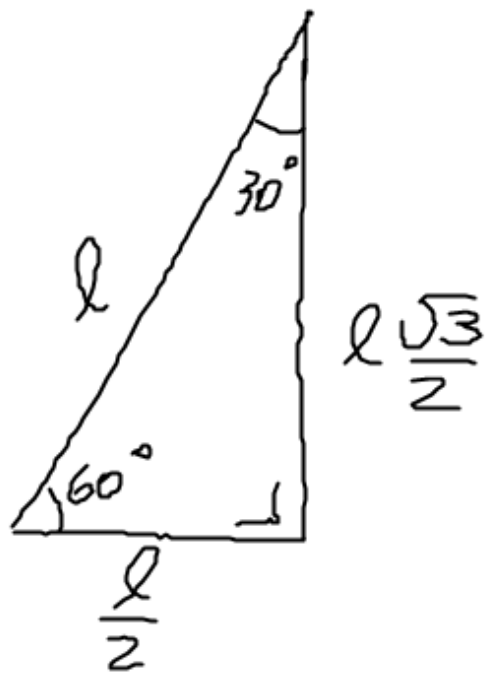
$F_E = \text{FORZA EQUILIBRANTE}$
 $= ?$

ATTRITO TRASCURABILE

$h = 2,0 \text{ m}$
 $l = 4,0 \text{ m}$
 LUNGHEZZA
 DEL PIANO
 INCLINATO

$$F_E = P_{\parallel} = P \frac{h}{l} = 100 \text{ N} \frac{2,0 \text{ m}}{4,0 \text{ m}} = 50 \text{ N}$$

OPPURE DIRETTAMENTE,
 PER SIMILITUDINE, $P_{\parallel} = \frac{P}{2}$

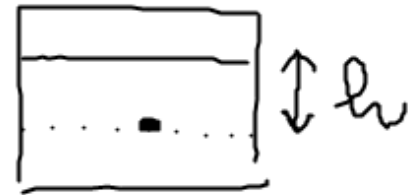


FLUIDI

- LEGGE DI STEVINO

PRESSIONE (Pa)

$$p = d h g$$



- PRINCIPIO DI PASCAL

- PRINCIPIO DI ARCHIMEDE

$$S = d g V$$

SPINZA DI
ARCHIMEDE (N)

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$$m = 3,2 \text{ kg}$$

$$p = 2,13 \text{ bar}$$

$$1 \text{ bar} = 10^5 \text{ Pa}$$

$$S = ?$$

SUPERFICIE D'APPoggio

$$p = \frac{P}{S} \Rightarrow S = \frac{P}{p} = \frac{m g}{p} =$$

$$= \frac{(3,2 \text{ kg})(9,8 \frac{\text{N}}{\text{kg}})}{2,13 \times 10^5 \text{ Pa}} = 1,47... \times 10^{-4} \text{ m}^2$$

cm²

$$= 1,5 \text{ cm}^2$$

ARCHIMEDE

PALLINA DI FERRO $d = 7,9 \times 10^3 \frac{\text{kg}}{\text{m}^3}$

DIAMETRO $2R = 18 \text{ mm}$

IMMERSA IN H_2O

$$V_{\text{SFERA}} = \frac{4}{3} \pi R^3$$

$$d_{\text{H}_2\text{O}} = 10^3 \frac{\text{kg}}{\text{m}^3}$$

PESO

$$P_{\text{PALLINA}} = ?$$

$$S_{\text{ARCHIMEDE}} = ?$$

$$P_{\text{PALLINA}} = \underset{\substack{\uparrow \\ \text{DEL FE}}}{d} V g = (7,9 \times 10^3) \left(\frac{4}{3} \pi (9 \times 10^{-3})^3 \right) (9,8) \text{ N} =$$

$$= 236411 \times 10^{-6} \text{ N} =$$

$$= 0,24 \text{ N}$$

TROUARE LA SPINTA DI ARCHIMEDE

$$3,0 \times 10^{-2} \text{ N}$$