

8)

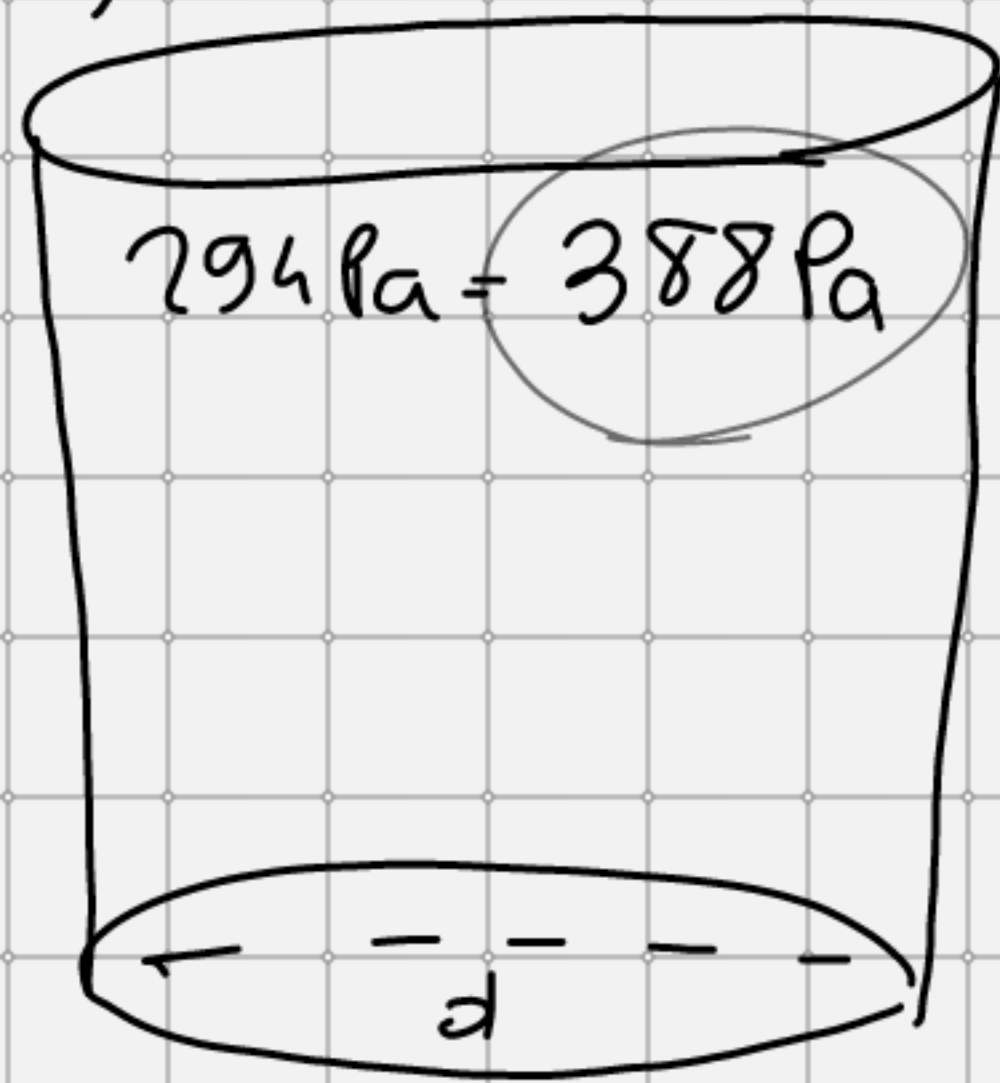
$$P = mt + q$$

$$* = \frac{\Delta P}{\Delta t} = \frac{P_{fin} - P_{in}}{t_{fin} - t_{in}} = \frac{(670 - 294) \text{ Pa}}{4 \text{ s}} = \frac{376 \text{ Pa}}{4 \text{ s}} = \frac{188 \text{ Pa}}{2 \text{ s}} = 94 \frac{\text{Pa}}{\text{s}}$$

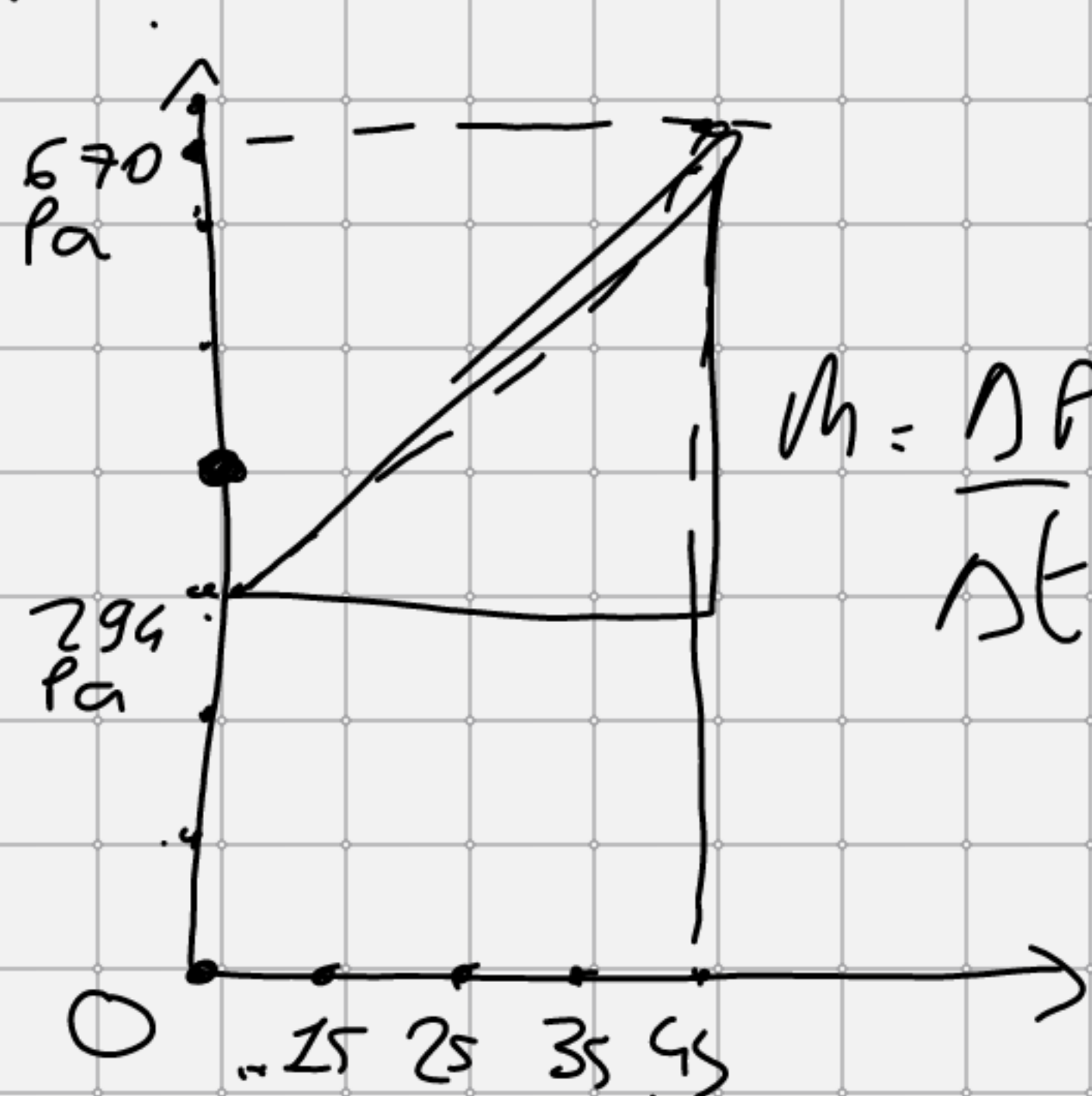
Dati $P(t) = mt + q = 94 \frac{\text{Pa}}{\text{s}} \cdot 1 \text{ s} + 294 \text{ Pa} = 388 \text{ Pa}$

$d = 10,4 \text{ cm}$

$P_{\text{baratkes vuoto}} = 294,0 \text{ Pa}$



$P(t) [\text{Pa}]$



$$h = \frac{\Delta P}{\Delta t} = *$$

$$P = \frac{F_{\perp}}{S} = \frac{mg}{S}$$

$$m = P \cdot S = 294,0 \frac{\text{N}}{\text{m}^2} \cdot 8,49 \cdot 10^{-3} \text{ m}^2 \approx 2,5 \text{ kg}$$

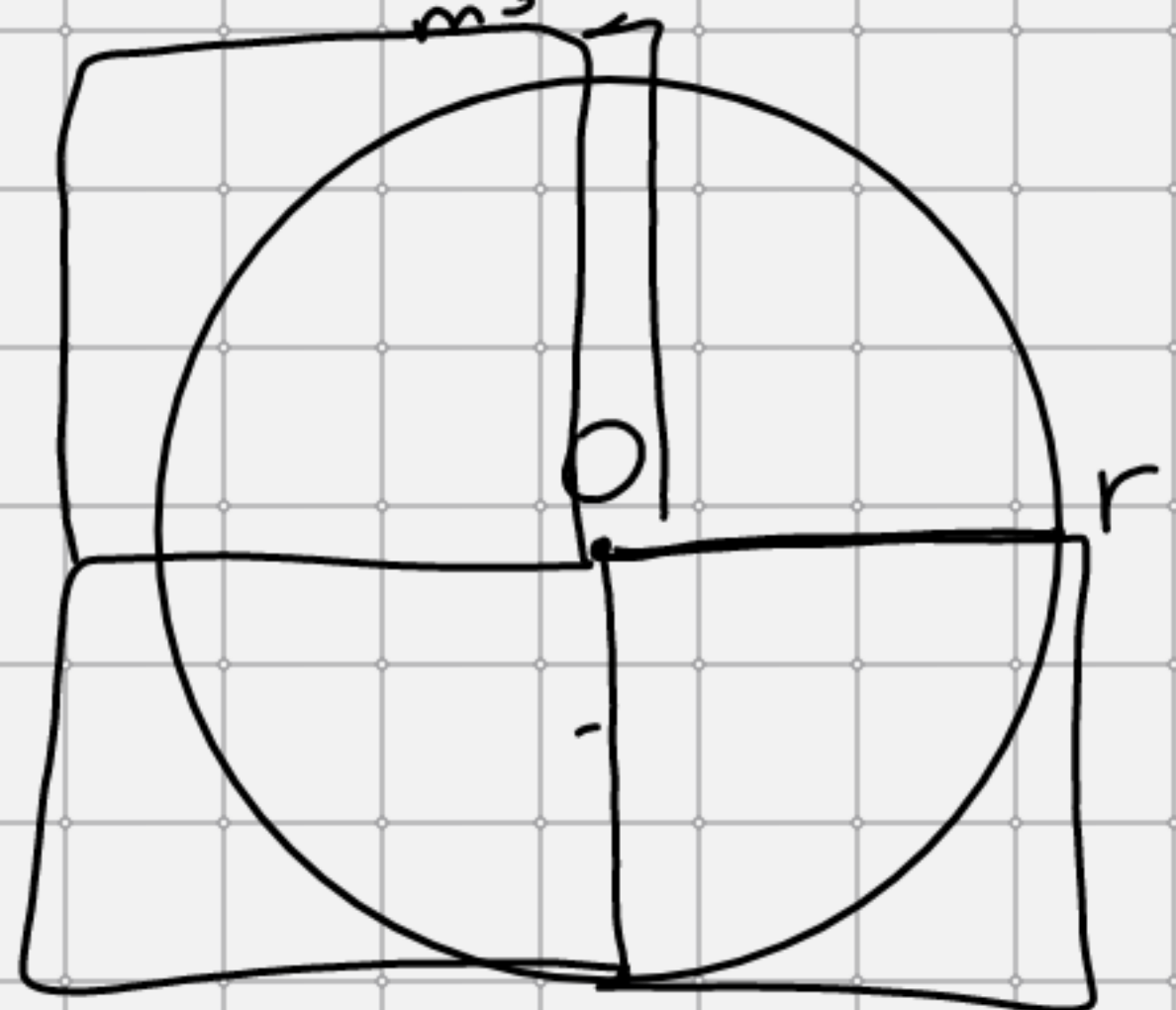
$$S = r^2 \pi = (0,052 \text{ m})^2 \pi \approx 0,00849 \text{ m}^2$$

$$r = \frac{d}{2} = \frac{10,4 \text{ cm}}{2} = 5,2 \text{ cm} = 0,052 \text{ m}$$

$$9,82 \frac{\text{N}}{\text{kg}}$$

$$= 0,25 \text{ kg}$$

$$\Delta V = \frac{\Delta m}{d} = \frac{0,1 \text{ Kg}}{920 \frac{\text{Kg}}{\text{m}^3}} = 0,000108 \text{ m}^3 = 186 \text{ cm}^3$$



$$A = 3,14 r^2$$

$$p' = \frac{m'g}{S} = 388 \text{ Pa} = \frac{99 \frac{\text{P}}{\text{S}} \cdot 9,8 \frac{\text{N}}{\text{Kg}}}{8,49 \cdot 10^{-3}}$$

$$M' = \frac{p' \cdot S}{g} = \frac{388 \frac{\text{N}}{\text{m}^2} \cdot 8,49 \cdot 10^{-3} \text{ m}^2}{9,8 \frac{\text{N}}{\text{Kg}}} = *$$

$$* = 0,336 \text{ Kg}$$

$$\Delta m = |m' - m| = |0,336 - 0,25| \text{ Kg} \approx *$$

$$* = 0,1 \text{ Kg} = 0,86 \text{ kg}$$

$$V = S h$$

$$\Delta V = S \Delta h \rightarrow \Delta h = \frac{\Delta V}{S} = \frac{186 \text{ cm}^3}{8,49 \text{ cm}^2} \approx 22 \text{ cm}$$

$$m = d \cdot V$$

$$\Delta m = d \cdot \Delta V$$

$$|0,292\text{kg} - 0,25\text{kg}| = 0,042\text{kg}$$