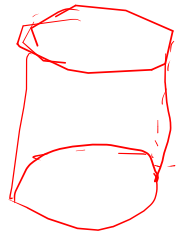


$$d = 10,4 \text{ cm}$$

$$V = 5,2 \text{ cm}^3$$



$$S = \pi r^2$$

$$m_1 \text{ (mit)} \quad P_1 = \frac{F_1}{S} = \frac{m_1 \cdot g}{S}$$

$$m_1 = \frac{P_1 \cdot S}{g}$$

$P(t) [P_2]$



$$m_1 = 0,25 \text{ kg}$$

$$\text{Gesucht: } \frac{\Delta P}{\Delta t} = \frac{6,75 P_2 - 2,5 P_2}{4 \text{ s}}$$

$$y = m x + q$$

$$P(t) = \frac{\Delta P}{\Delta t} t + q \quad \text{mit } P_1$$