

$$\begin{cases} \frac{m_1}{V_1} + m_1 \cdot Z = \frac{m_2}{V_1} = \frac{(m - m_1 - m_3)}{V_2} \\ \frac{m_2}{V_2} + m_2 \cdot Z = \frac{m_3}{V_3} = \frac{(m - m_1 - m_2)}{V_3} \end{cases}$$

1

$$\frac{m_1}{V_1} + m_1 \cdot Z = \frac{m}{V_2} - \frac{m_1}{V_2} - \frac{m_3}{V_2}$$

$$\frac{m_2}{V_2} + m_2 \cdot Z = \frac{m}{V_3} - \frac{m_1}{V_3} - \frac{m_2}{V_3}$$

$$Z = \frac{\rho g}{R} = 0,01$$

$$\frac{m_1}{V_1} + m_1 \cdot Z + \frac{m_1}{V_2} = \frac{m}{V_2} - \frac{m_3}{V_2}$$

$$\frac{m_2}{V_2} + m_2 \cdot Z + \frac{m_2}{V_3} = \frac{m}{V_3} - \frac{m_1}{V_3}$$

$$m_1 \left(\frac{1}{V_1} + Z + \frac{1}{V_2} \right) = \frac{m - m_3}{V_2}$$

C_1

$$m_2 \left(\frac{1}{V_2} + Z + \frac{1}{V_3} \right) = \frac{m - m_1}{V_3}$$

C_2

$$m_1 \cdot C_1 = \frac{m - m_3}{V_2}$$

$$m_2 \cdot C_2 = \frac{m - m_1}{V_3}$$

$$m_1 \cdot C_1 = \frac{m - (m - m_2 - m_1)}{V_2}$$

$$m_3 = m - m_2 - m_1$$

$$m_1 \cdot C_1 = \frac{m - m + m_2 + m_1}{V_2} = \frac{m_2 + m_1}{V_2} = \frac{m_2}{V_2} + \frac{m_1}{V_2}$$

$$m_1 \cdot C_1 - \frac{m_1}{V_2} = \frac{m_2}{V_2}$$

$$m_1 \left(C_1 - \frac{1}{V_2} \right) = \frac{m_2}{V_2} \Rightarrow$$

$$m_1 = \frac{m_2}{V_2 \cdot \left(C_1 - \frac{1}{V_2} \right)}$$

m_1

$$m_2 \cdot C_2 = \frac{m - \left(\frac{m_2}{V_2 \cdot \left(C_1 - \frac{1}{V_2} \right)} \right)}{V_3}$$

2

$$m_2 \cdot C_2 = \frac{m}{V_3} - \frac{\left(\frac{m_2}{V_2 \cdot \left(C_1 - \frac{1}{V_2} \right)} \right)}{V_3}$$

$$m_2 \cdot C_2 = \frac{m}{V_3} - \frac{m_2}{V_3 \cdot V_2 \cdot \left(C_1 - \frac{1}{V_2} \right)}$$

$$m_2 \cdot C_2 + \frac{m_2}{V_3 \cdot V_2 \cdot \left(C_1 - \frac{1}{V_2} \right)} = \frac{m}{V_3}$$

$$m_2 \left(C_2 + \frac{1}{V_3 \cdot V_2 \cdot \left(C_1 - \frac{1}{V_2} \right)} \right) = \frac{m}{V_3}$$

$$m_2 = \frac{m}{V_3 \cdot \left(C_2 + \frac{1}{V_3 \cdot V_2 \cdot \left(C_1 - \frac{1}{V_2} \right)} \right)}$$



$$C_1 = 2,01$$

$$C_2 = 2,01$$

$$m_1 = \frac{0,99996}{1 \cdot (2,01 - 1)} = 0,9897$$

$$m_3 = 3 - 0,9897 - 0,99996 = 1,01024$$

3

$$m_2 = \frac{3}{1 \cdot \left(2,01 + \frac{1}{1 \cdot 1 \cdot (2,01 - 1)} \right)} = 0,99996$$

1,6 сумм

$$V_1 = 0,1$$

$$V_2 = 1$$

$$V_3 = 0,5$$

$$m = 10$$

$$m_2 = \frac{10}{0,5 \cdot \left(3,01 + \frac{1}{0,5 \cdot 10 (11,01 - 1)} \right)} = \frac{10}{11,5250} =$$

$$m_1 = \frac{\cancel{0,86} \cdot 6,23}{10 \left(11,01 - \frac{1}{1} \right)} = \frac{\cancel{0,86} \cdot 6,23}{10,01} = \frac{0,86 \cdot 6,23}{10,01} = 0,62 \text{ кг}$$

~~$m_1 = m_2$~~

$$\left| \begin{array}{l} 0,62 \text{ кг} \\ 6,23 \text{ кг} \\ 3,15 \text{ кг} \end{array} \right| 0,625$$

