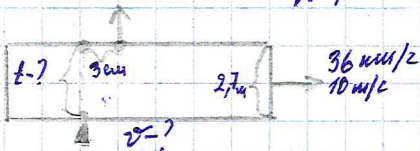


N1



908

$$1) t = \frac{2.7}{v}$$

$$2) t = \frac{0.03}{10 \text{ м/с}} = 0.003 \text{ с}$$

$$3) 0.003 = \frac{2.7}{v} \Rightarrow v = \frac{2.7 \text{ м}}{0.003 \text{ с}} = 900 \text{ м/с}$$

$$\text{Ответ: } v = 900 \text{ м/с.}$$

85

Дано:

$$t = 0^\circ \text{C}$$

$$\lambda = 3.4 \cdot 10^5 \frac{\text{Дж}}{\text{кг}}$$

$$L = 2.3 \cdot 10^6 \frac{\text{Дж}}{\text{кг}}$$

$$m_1 = ?$$

$$Q_{\text{пл}} = Q_{\text{зам}}$$

$$m = m_1 + m_2 \rightarrow m_2 = m - m_1$$

$$L m_2 = \lambda m_1$$

$$m_1 = \frac{L}{L + \lambda} m$$

$$L(m - m_1) = \lambda m_1$$

$$m_1 = \frac{2300000 \frac{\text{Дж}}{\text{кг}}}{2300000 \frac{\text{Дж}}{\text{кг}} + 340000 \frac{\text{Дж}}{\text{кг}}} m =$$

$$Lm - Lm_1 - \lambda m_1 = 0$$

$$= \frac{1}{340000} m$$

$$m_1(L + \lambda) = Lm$$

$$\text{Ответ: } m_1 = \frac{1}{340000} m$$

Ответ:

N3

Дано:

$$S = 2 \text{ мм}^2$$

$$m = 17.8 \text{ мг}$$

$$\rho = 8900 \frac{\text{кг}}{\text{м}^3}$$

Решение:

$$V = SL$$

$$V = \frac{m}{\rho} = \frac{17.8 \text{ мг}}{8900 \frac{\text{кг}}{\text{м}^3}} = 0.002 \text{ м}^3$$

$$L = \frac{17.8 \text{ мг}}{8900 \frac{\text{кг}}{\text{м}^3} \cdot 0.002 \text{ м}^3} = 1000 \text{ м}$$

$$\text{Ответ: } L = 1000 \text{ м}$$

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