

1. Дано:

Решение:

$$t_1 = 20\text{c}$$

$$1) m_1 = m_2 = m_0; \Delta t = t_2 - t_1 = 50 - 20 = 30\text{c}$$

$$k_1 = 1,8\text{ко}$$

$$\Delta k = k_2 - k_1 = 2,4 - 1,8 = 0,6\text{ко}$$

$$t_2 = 50\text{c}$$

$$P = mg \Rightarrow P = m(g + a)$$

$$k_2 = 2,4\text{ко}$$

$$a_1 = ?$$

$$P_1 = 1,8P_0$$

$\Rightarrow$

$$m(g + a_1) = 1,8mg$$

$$m(g + a_1) = 2,4mg$$

$$V_1 = ?$$

$$P_2 = 2,4P_0$$

$$g + a_1 = 1,8g$$

$$g + a_1 = 2,4g$$

$$a_1 = 1,8g - g$$

$$a_2 = 2,4g - g$$

$$a_1 = 0,8g$$

$$a_2 = 1,4g$$

$$2) V_1 = 95\text{м/с}$$

$$a_1 = 0,8 \cdot 10 = 8\text{м/с}^2$$

2. Дано:

Решение:

$$t = \text{const} (2-3)$$

$$\text{при } V = \text{const}; \frac{P}{T} = \text{const}; \text{при } T = \text{const}; PV = \text{const}.$$

$$t = \text{const} (4-1)$$

$$m = \text{const}$$

$$m \cdot V_2 = V_4; \text{по } V = \text{const}.$$

$$P_1 = P_3 = \text{const (по условию)}$$

$$V_1, V_3, V_2 = V_4$$

$$T_1, T_2$$

$$V_2 = ?$$

$$V_4 = ?$$

$$V_2 = V_4 = 2V_1.$$

2. Дано:

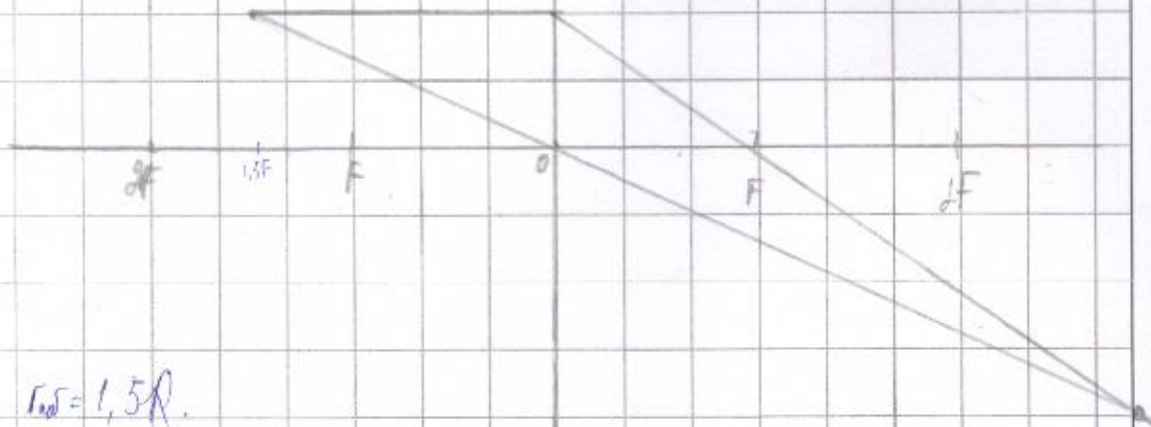
1. Дано:

$$n = 1,5$$

R

$$\frac{1}{F} = (n-1) \left(\frac{1}{R_1} + \frac{1}{R_2} \right)$$

R - ?



$$1,5F = 1,5R.$$

3. Дано:

Решение:

E.

$$I_1 = 4I_2$$

d

nL.

$$x < a$$

$$I_2 = \frac{I_1}{4}$$

$$U_2 = ?$$

$$I_1 = ?$$

$$U_1 = ?$$

$$U_2 = 0,5 \text{ MВ.}$$