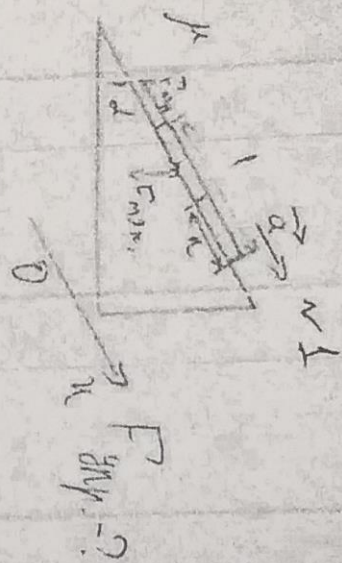


~~Задача:~~

1	2	3	4	Σ
8	6	9	3	26

масса m_1 - без учета, который находится между телом и горизонт.

Сила F ?



$$\vec{F}_{гнп} + \vec{F}_{гор} = \vec{0} \Rightarrow m_1$$

$$F_{гнп} - F_{гор} = F_{гор} - F_{гор} = m_1 a$$

$$F_{гор} = m_1 g \sin \alpha$$

$$F_{гор} = m_1 g \mu \cos \alpha$$

$$F_{гор} = F_{гор} + F_{гор} + m_1 a$$

$$F_{гор} = m_1 g \mu \cos \alpha + m_1 g \sin \alpha + m_1 a$$

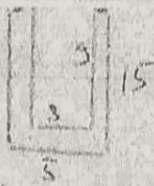
$$F_{гор} = \frac{m(1-\mu)}{1} (g \mu \cos \alpha + g \sin \alpha + a)$$

Ответ: $F_{гор} = \frac{m(1-\mu)}{1} (g \mu \cos \alpha + g \sin \alpha + a)$

NAME:

 $U = 220 \text{ B}$ $R = 100 \text{ B}$ $\Gamma_2 = 5 \text{ cm}$ $h_2 = 15 \text{ cm}$ $\Gamma_2 = 3 \text{ cm}$ $h_2 = 9 \text{ cm}$ $\delta = 0,003 \text{ K/mK}$ $\rho = 1000 \frac{\text{kg}}{\text{m}^3}$ $\rho_{\text{air}} = 1,2 \frac{\text{kg}}{\text{m}^3}$ $C_b = 4200 \frac{\text{J}}{\text{kg} \cdot ^\circ\text{C}}$ $C_{\text{air}} = 1000 \frac{\text{J}}{\text{kg} \cdot ^\circ\text{C}}$ $\Delta T = 50^\circ\text{C}$ $t = ?$

Time

 v^2 

$$Q = \frac{U^2 t}{R}$$

$$Q = Q_{\text{air}} + Q_b$$

$$Q_{\text{air}} = V_{\text{air}} \rho_{\text{air}} C_{\text{air}} \Delta T = 74775,96 \text{ (J)}$$

$$V_{\text{air}} = \pi R_1^2 \cdot h_1 - \pi R_2^2 \cdot h_2 = 923,16 \text{ (cm}^3) = 0,00092316 \text{ (m}^3)$$

$$Q_b = \frac{2\pi R_1^2 \delta}{\ln \frac{R_1}{R_2}} \cdot C_b \cdot \Delta T = \frac{(2 \cdot 0,03 \cdot 0,003 \cdot 4200 \cdot 50)}{\ln \frac{0,03}{0,015}} = 210000$$

$$V_b = 254,34 \text{ (cm}^3) = 0,00025434 \text{ (m}^3)$$

$$Q_b = \frac{2\pi R_1^2 \delta}{\ln \frac{R_1}{R_2}} \cdot C_b \cdot \Delta T = (0,509 - 0,18) \cdot 210000$$

$$\delta = 0,003 \frac{\text{K}}{\text{mK}} = 0,003 \frac{\text{K}}{\text{C}} \quad ?$$

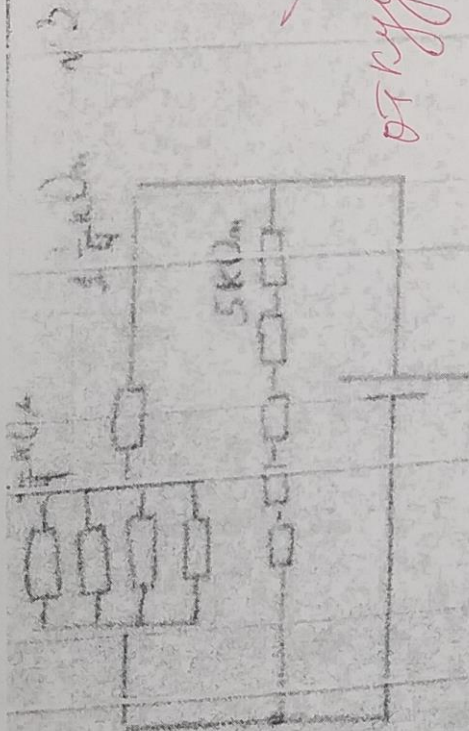
$$Q = \frac{(220 \text{ B})^2 \cdot t}{100 \text{ B}} = 484 t$$

$$484 t = 74775,96 + (0,509 - 0,18) \cdot 210000$$

$$t = \frac{181665,96}{38284}$$

$$t \approx 4,75 \text{ (s)}$$

Answer: $t \approx 4,75 \text{ (s)}$



$$\frac{1}{\frac{1}{5k\Omega} + \frac{1}{5k\Omega} + \frac{1}{5k\Omega}} = \frac{5}{3}k\Omega$$

$$\frac{1}{\frac{1}{5k\Omega} + \frac{1}{5k\Omega} + \frac{1}{5k\Omega}} = \frac{5}{3}k\Omega$$

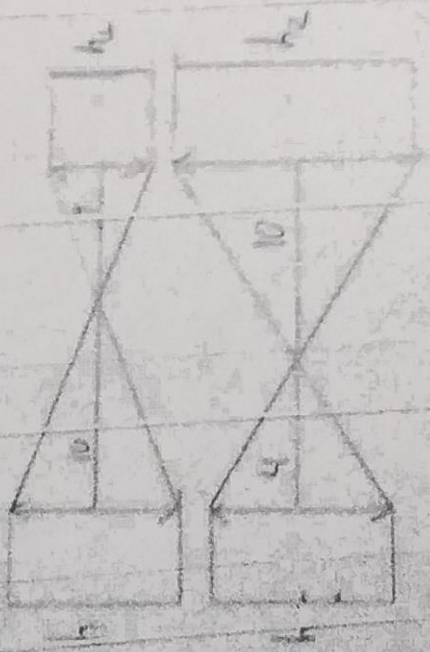
$$R_{eq} = 1k\Omega$$

отсюда

мы

перепроверим

Применяем правило, а именно: доверие расчетам



$$\frac{h_1}{h_2} = \frac{10}{4} = \frac{5}{2}$$

$$h_1 = \frac{10h_2}{4} = \frac{5h_2}{2}$$

$$\frac{5h_2}{2} = \frac{4h_2}{10}$$

$$100h_2 = 16h_2$$

$$h_2 = \frac{100 \cdot 4 \mu A}{16} = 25 \mu A$$

$$h_2 = 25 \mu A$$