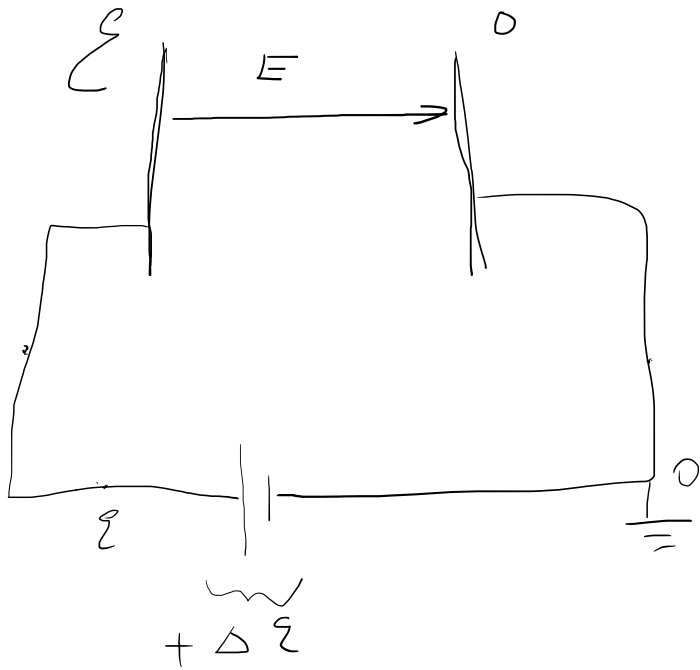
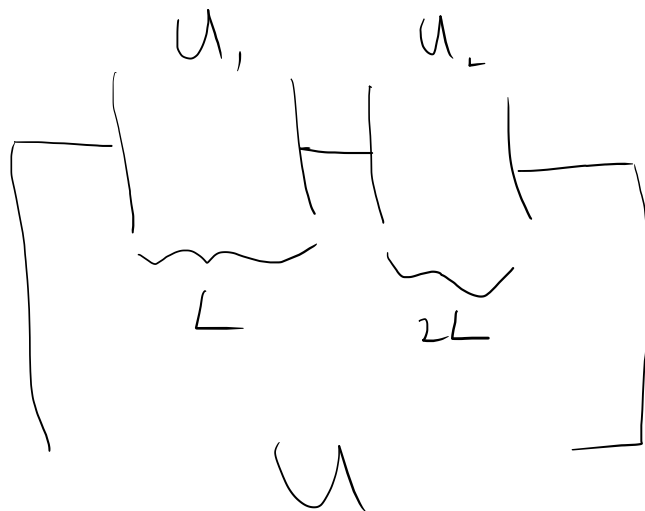


Задача с конденсатором

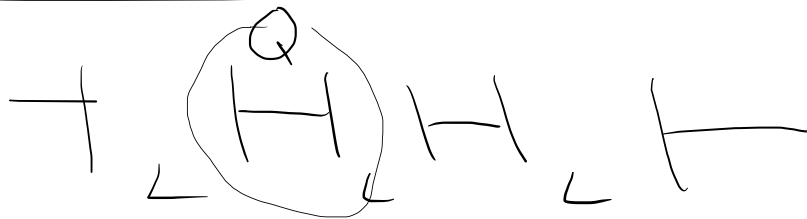


$$U = \sum E(x) \cdot \Delta x$$

$$U = E \cdot x$$

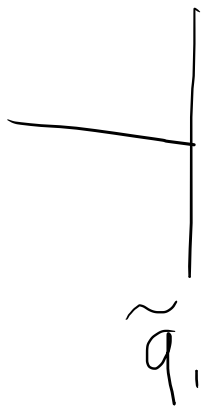


$$U = U_1 + U_2 = L \cdot E_1 + 2L E_2$$



$$U = E_1 L + \bar{E}_2 L + E_3 L$$

0

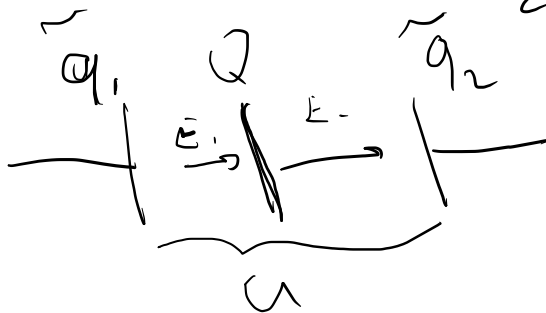


$$\tilde{q}_1 + \tilde{q}_2 = 0 = q_1 + q_2$$

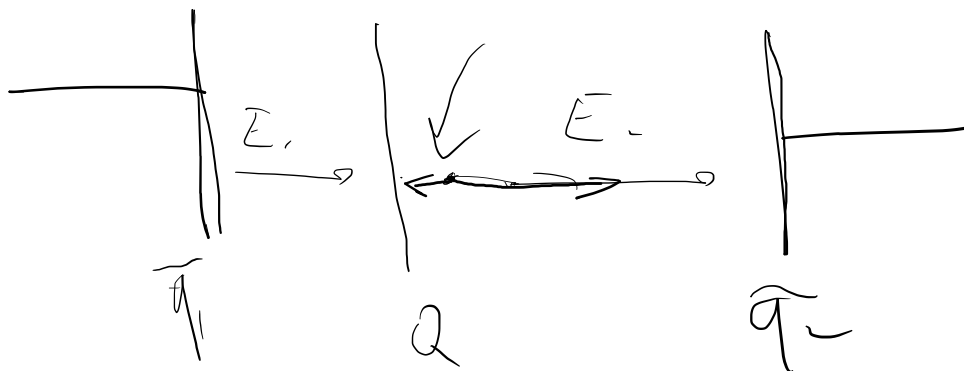
$$E_1 = \frac{\tilde{q}_1 - Q - \tilde{q}_2}{2S}$$

$$Q_1 + Q_2 = Q$$

$$2SE_2 =$$



u

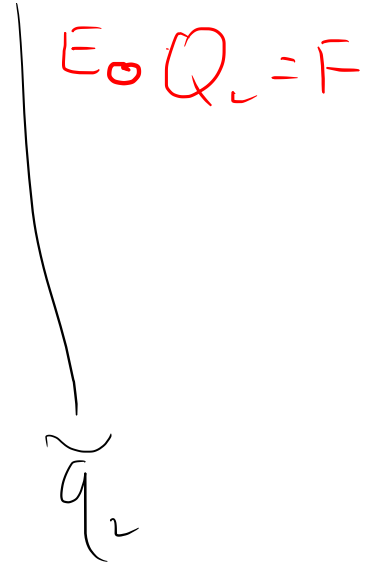
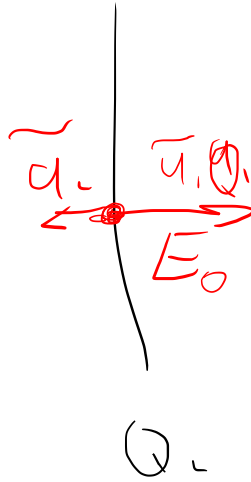
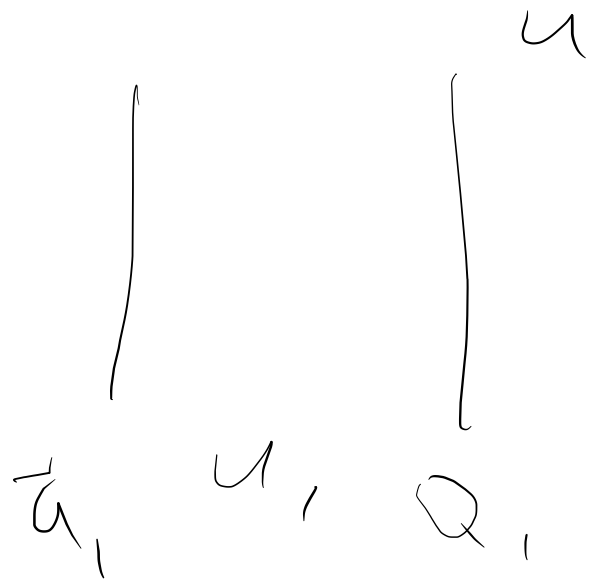


$$u = E \times$$

~~$$2 \sin E_1 = \bar{q}_1 - Q - \bar{q}_2$$~~

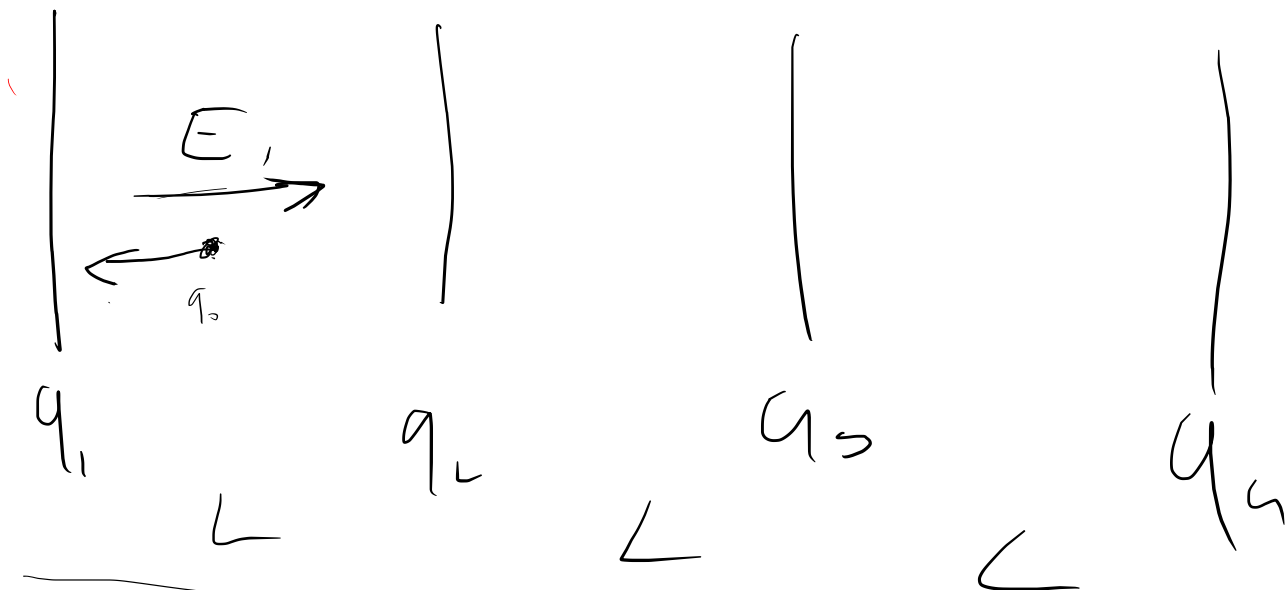
$$2 \sin E_2 = \bar{q}_1 + Q - \bar{q}_2$$

$$\bar{q}_1 + \bar{q}_2 = 0$$



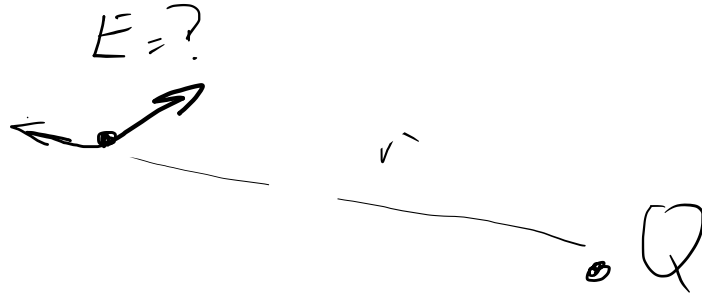
$u = E \cdot x$

$$\begin{cases} u = u_1 + u_2 + u_3 \rightarrow (u_1, Q_2) \\ Q_1 + Q_2 = Q \end{cases}$$



$$Q = \sum E \cdot L \quad \rightarrow X$$

$$E_1 = \frac{q_1}{2\epsilon_0} - \frac{q_2}{2\epsilon_0}$$



Q_2

$$E_Q = \frac{kQ}{r^2}$$

$$E_{Q_2} = \frac{kQ_2}{r^2}$$

$$\boxed{\vec{E}_2 = \vec{E}_Q + \vec{E}_{Q_2}}$$

Принцип суперпозиции



E

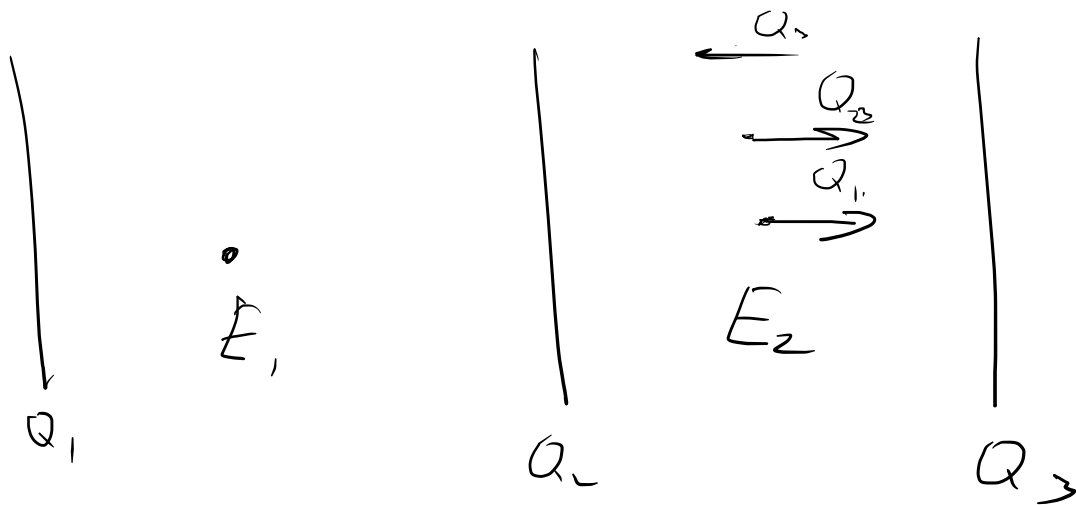


$$E_1 = \frac{Q_1}{2\epsilon_0 S}$$

$$E = E_1 + E_2 =$$

$$= \frac{Q_1}{2\epsilon_0 S} - \frac{Q_2}{2\epsilon_0 S}$$





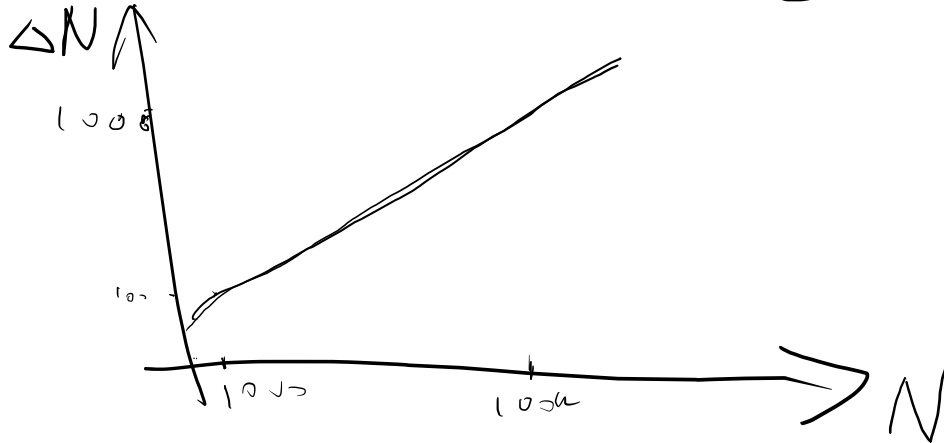
$$E_1 = \frac{Q_1 - Q_2 - Q_3}{2\epsilon S}$$

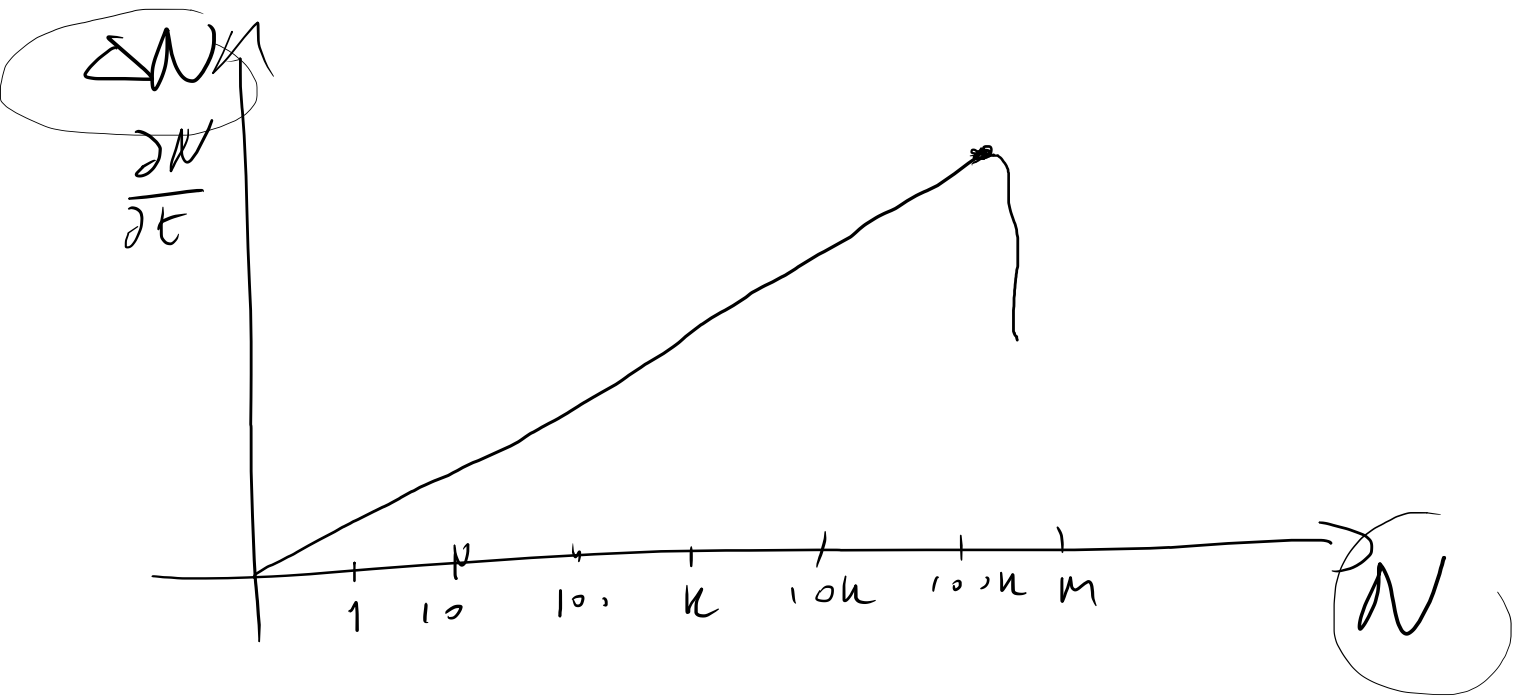
$$E_2 = \frac{Q_1 + Q_2 - Q_3}{2\epsilon S}$$

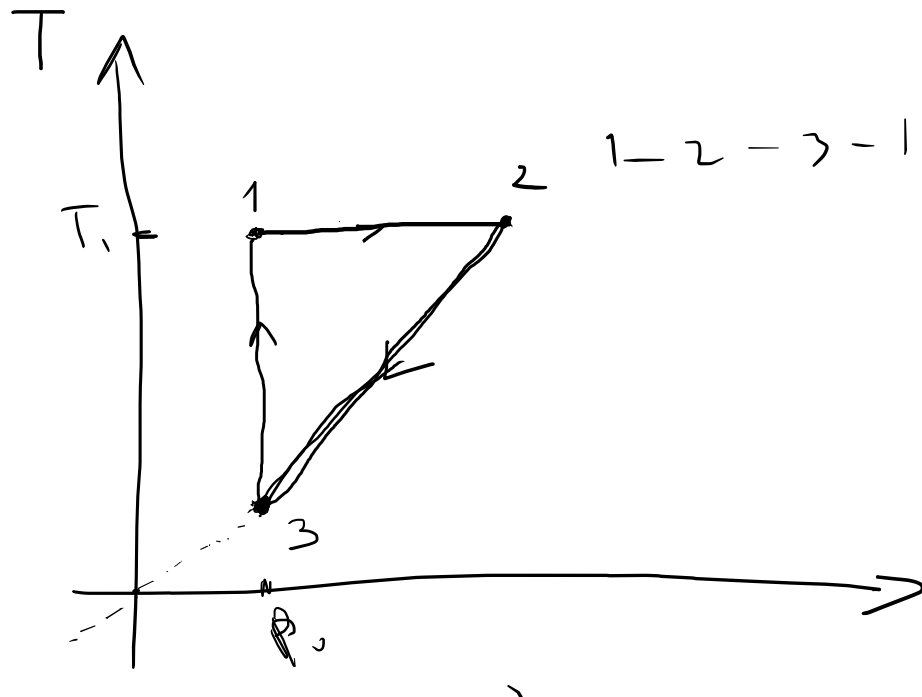
MKT



@ time







$V = \text{const}$

$$V = \text{const}$$

$$pV = nRT$$

$$T(p)$$

$$\frac{p}{T} = \text{const} \rightarrow$$

$$T = \alpha p$$

$$\gamma = 2$$

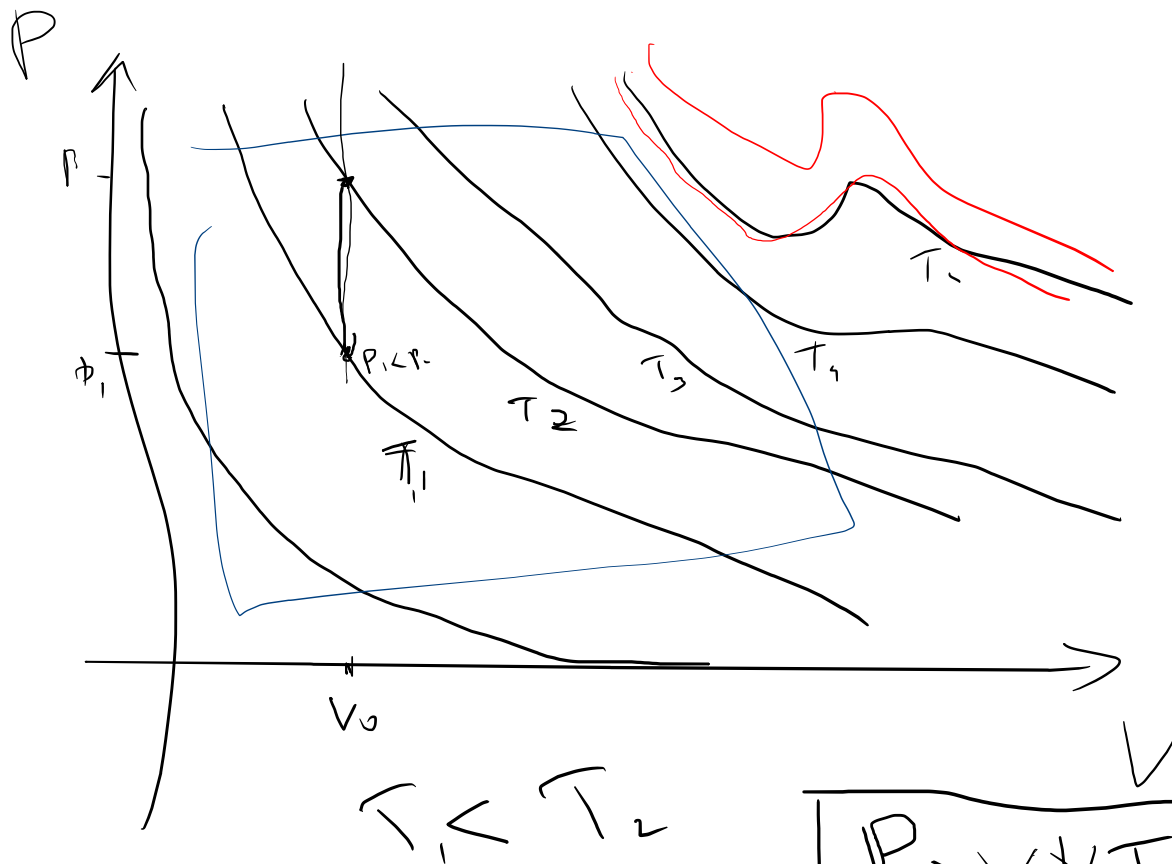


$$PV = nRT$$

$$T = \text{const} \rightarrow PV = \text{const}$$

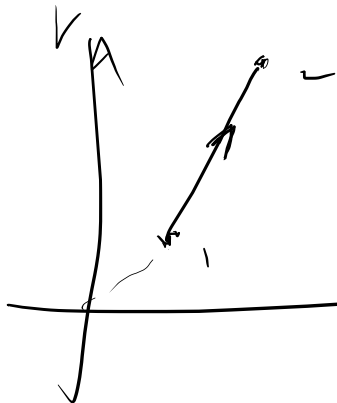
$$\boxed{\begin{matrix} P(V) \\ y(x) \end{matrix}}$$

$$\boxed{P = \frac{C}{V}} \quad y = \frac{C}{x}$$



$$T_1 < T_2$$

$$P = \frac{N}{V} k_B T$$



$$V = \alpha T$$

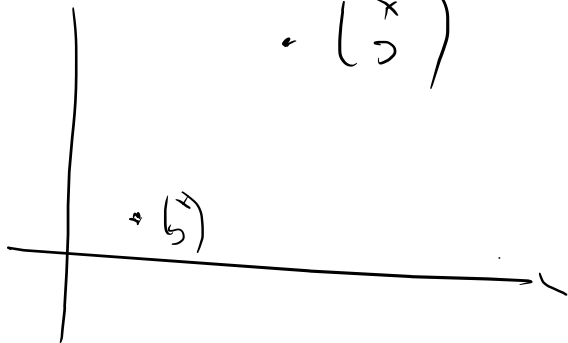
$$\frac{V}{T} = \alpha$$

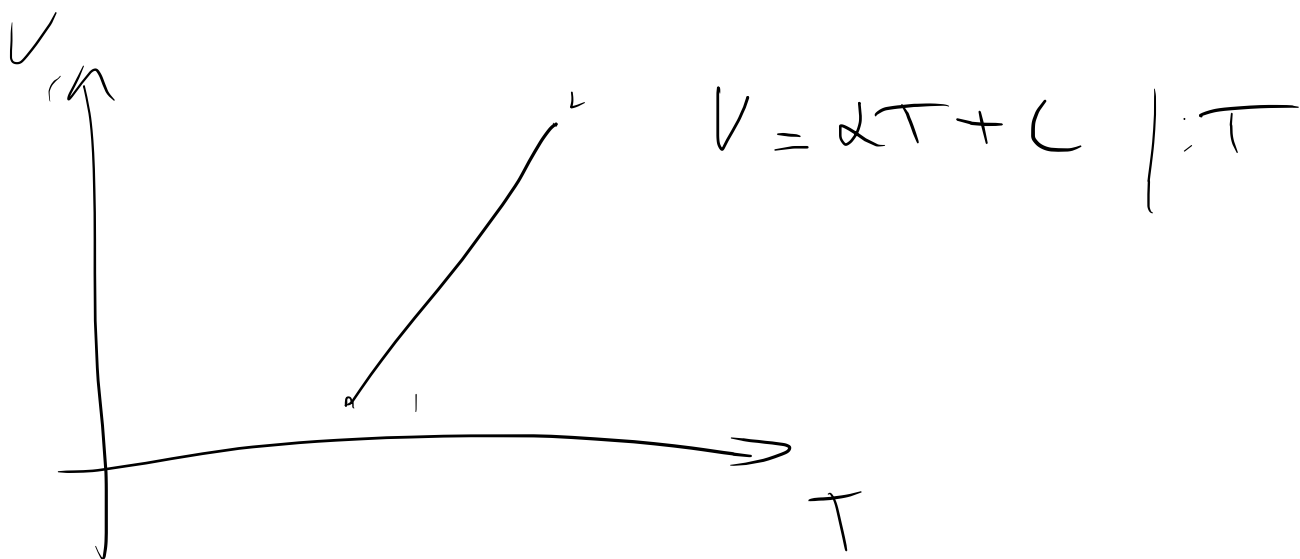
$$V = \alpha T + C$$

??

$$PV = nRT$$

$$\cdot \left(\frac{x}{y} \right)$$





$$\frac{V}{T} = \alpha + \frac{C}{T} \quad | \rightarrow \frac{V-C}{T} = \alpha$$

$$P V = \alpha R T$$

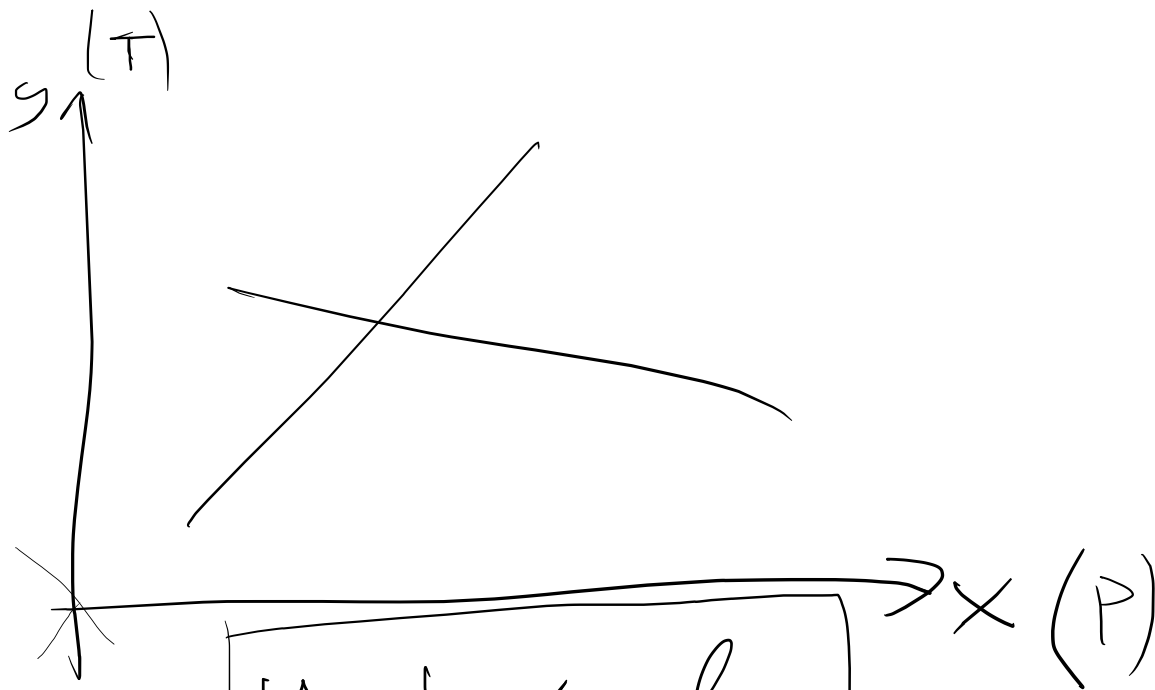
$$P = \frac{\alpha R T}{V}$$

Задание: из документа
</tasks/20/mkt.pdf>

Задачи 1-6

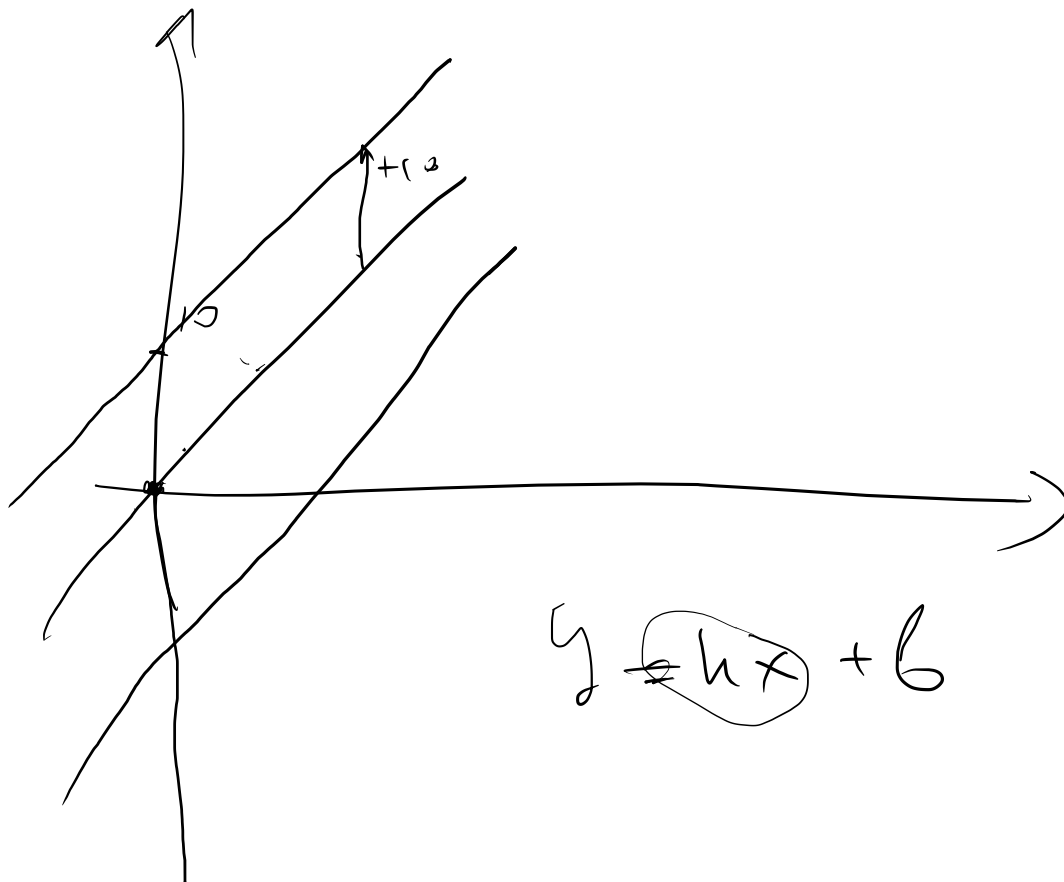
Задачи из task/19/
WorkShop_4_MKT.pdf
доделать и отправить все.

+ электростатика



$$y = k \cdot x + b$$

$$T = \alpha P + C$$



$$y = hx + b$$