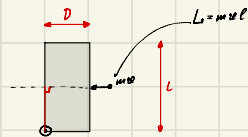




№3



μ_1 $\xrightarrow{K_1}$ $\mu_2 < \mu_1$
 $x_1 = \frac{R_1^2}{2m_1} E + \frac{R_2^2}{2m_2} E$ $\mu_1 v_1 = \mu_2 v_2$
 $\frac{R_1^2}{2m_1} \frac{v_1^2}{v_1^2} = \frac{R_2^2}{2m_2} \frac{v_2^2}{v_2^2}$ $P_{K_1} = P_{K_2} = P_K$

№4

$$R = \sqrt{v_x^2 + v_y^2} = v$$

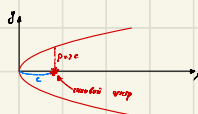
$$R = \frac{v^2}{a_y} = \frac{v^2}{a_n}$$



$$R = \frac{v^2}{a_n} ; a_n = \frac{v^2}{R} = \frac{v^2}{\frac{R}{\sin \alpha}} = \frac{v^2 \sin \alpha}{R}$$

$$R = \frac{(v^2) \sin \alpha}{\frac{v^2}{R}} = \frac{R}{\sin \alpha}$$

№4



$$y^2 = 2px$$

$$p = 2e$$

