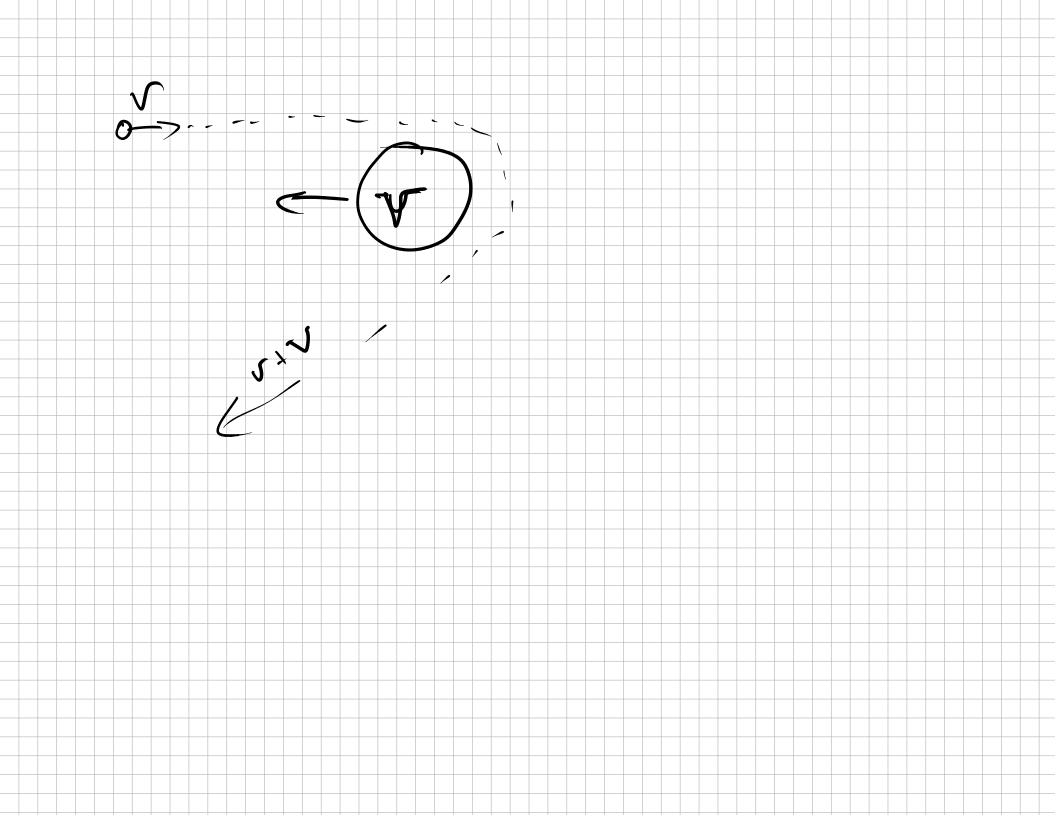
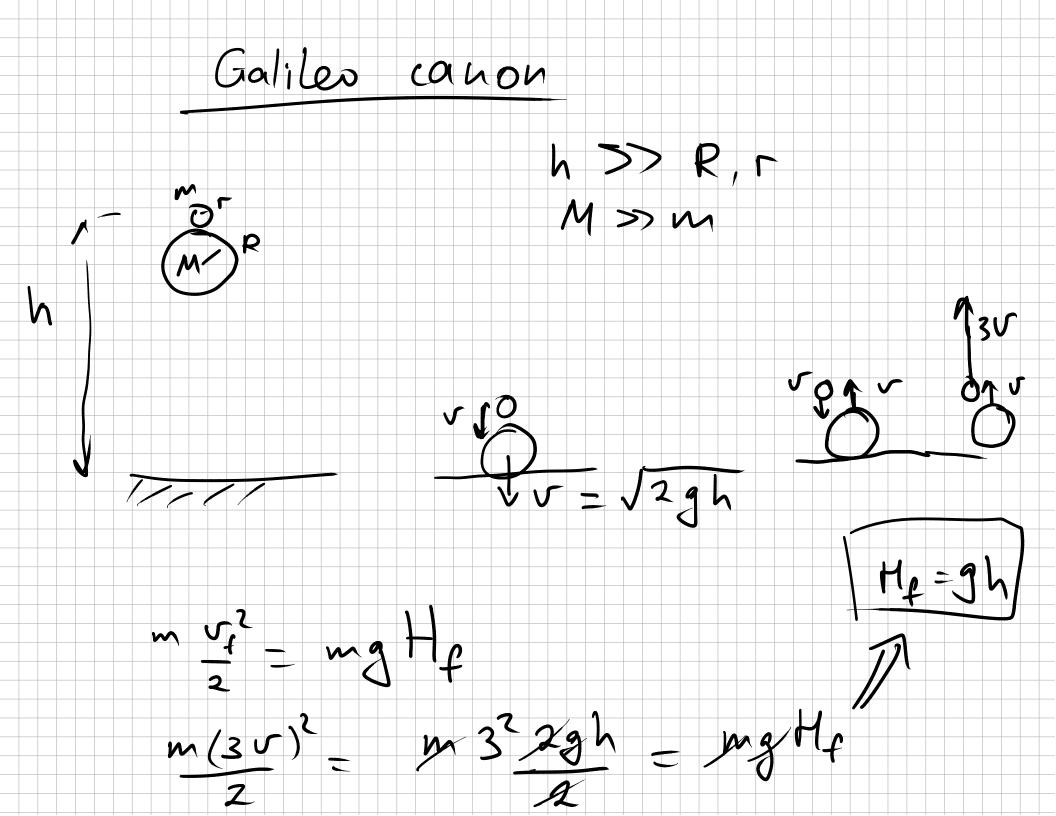
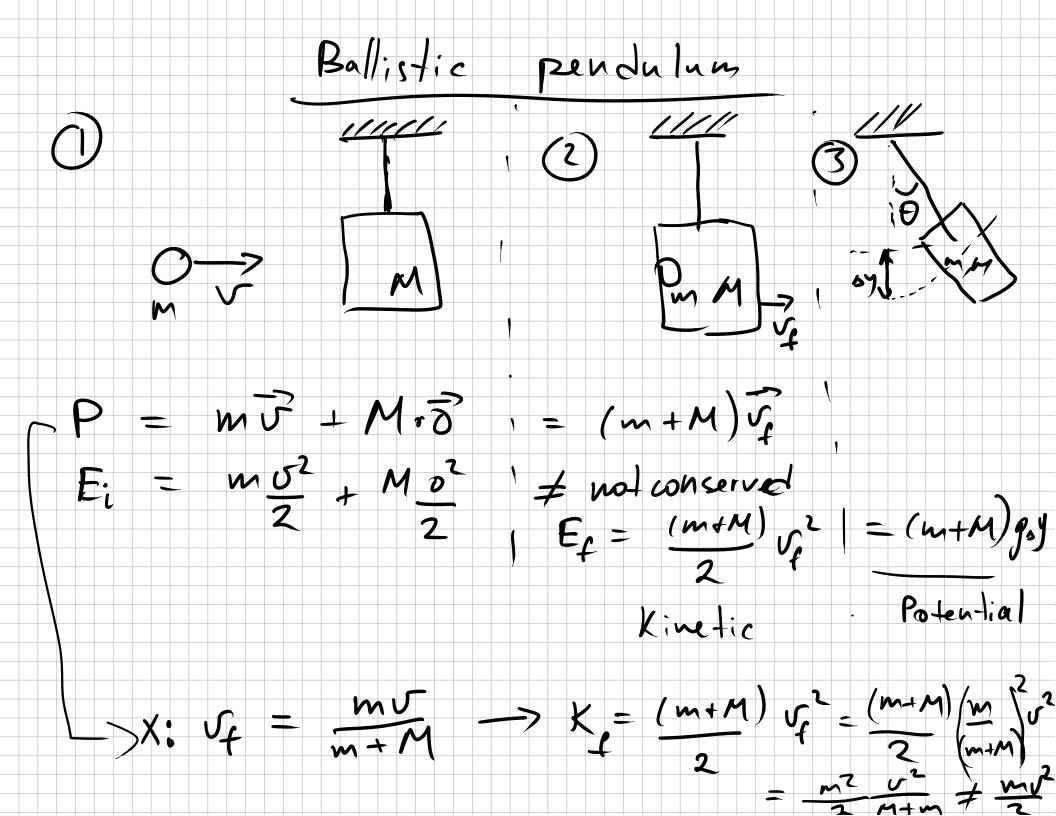
## Elastic collision

Before 
$$[M] \rightarrow [M] \rightarrow [M]$$







$$K_{4} = U_{4}$$

$$\frac{m^{2}}{2} \frac{\sigma^{2}}{M+m} = (\mu m)g = y$$

$$\left(\frac{m}{M+m}\right)^{2} \frac{\sigma^{2}}{2} \frac{1}{3}$$

General case in 3D constant, if there no total external forces  $m, V_1 + m_2 V_2 = constand$ of Billiard: m. = m. Gave slands still

$$\overrightarrow{\nabla}_{i} = \overrightarrow{\nabla}_{i} + \overrightarrow{\nabla}_{i} = \overrightarrow{\nabla}_{i} + \overrightarrow{\nabla}_{i}$$

$$\overrightarrow{\nabla}_{i} = \overrightarrow{\nabla}_{i} + \overrightarrow{\nabla}_{i}$$

$$\overrightarrow{\nabla}_{i}$$

$$F_{ext} = \frac{1}{2} \frac{$$