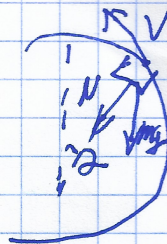
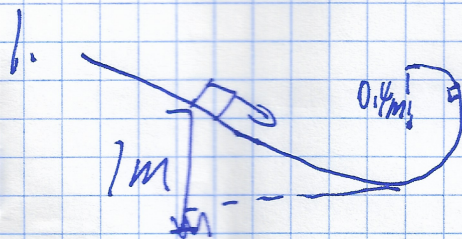


Динамика



$$mg \cos \alpha = ma$$

$$\left\{ \begin{array}{l} a = \frac{v^2}{R} \end{array} \right.$$

$$\Rightarrow v = \sqrt{gR \cos \alpha}$$

$$\cos \alpha = \frac{h-R}{R}$$

$$v = \sqrt{g(h-R)} \quad (1)$$

$$mgh = mgh + \frac{1}{2}mv^2$$

$$v^2 = 2g(H-h) \quad (2)$$

$$(1) \text{ и } (2) : g(h-R) = 2g(H-h)$$

$$h = \frac{2H+R}{3} = 0.8m$$