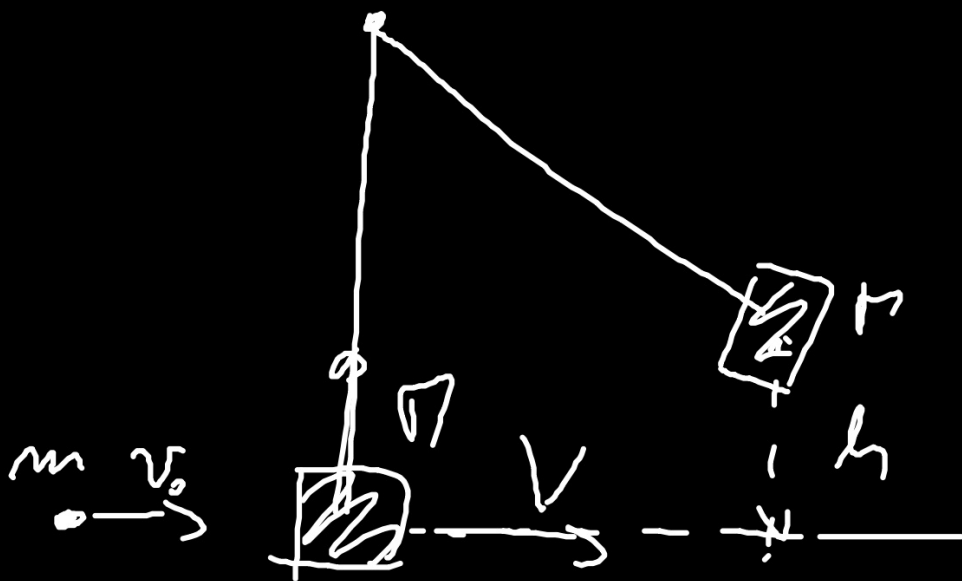


PENDOLO

BALISTICO



$$m v_0 = (m + M) \cdot V$$

$$V = \frac{m}{m + M} v_0 \quad (m + M)gh =$$

$$\frac{1}{2}(m+n)V^2 = (m+n)gh$$

$$h = \frac{1}{2} \frac{V^2}{g}$$

$$h = \frac{1}{2g} \left(\frac{m}{m+n} v_0 \right)^2$$

$$\left(\frac{m}{m+M} v_0 \right)^2 = 2gh$$

$$v_0 = \frac{m+M}{m} \sqrt{2gh}$$

$$m = 7g \quad M = 0,95 \text{ kg} \quad h = 0,22 \text{ m}$$

$$v_0 = 284 \text{ m/s}$$