

$$A = F \cdot S = [Дж] - \text{Работа}$$

$$N = \frac{A}{t} = [Вт] - \text{Мощность}$$

$$N = \frac{F \cdot S}{t} = F \cdot \left(\frac{S}{t}\right) = F \cdot v$$

Дано:

P-e

$$S = 5 \text{ м}$$

$$A = F \cdot S$$

$$m = 1 \text{ кг}$$

$$A_{\text{тр}} = F_{\text{тр}} \cdot S = \mu \cdot N \cdot S = \mu \cdot m \cdot g \cdot S = 0,2 \cdot 1 \cdot 10 \cdot 5 = \underline{10 \text{ Дж}}$$

$$\mu = 0,2$$

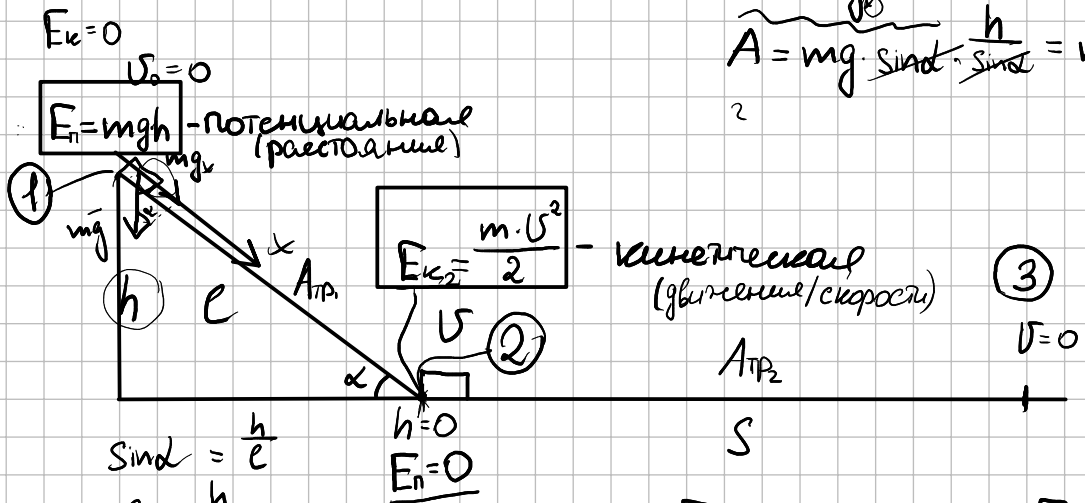
$$A = mg \cdot L$$

$$A = mg \cdot \sin \alpha \cdot \frac{h}{\sin \alpha} = mgh$$

$$A_{\text{тр}}$$

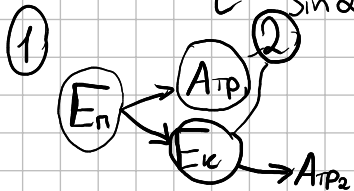
$$E = [Дж]$$

Знак работы



$$\sin \alpha = \frac{h}{l}$$

$$l = \frac{h}{\sin \alpha}$$



$$E_{\text{полн}} = E_n = A_{\text{тр}1} + E_{k2} = A_{\text{тр}1} + A_{\text{тр}2}$$

$E_n$  переходит в  $E_k$

$$E_{\text{полн}} = E_n + E_k = \text{const}$$