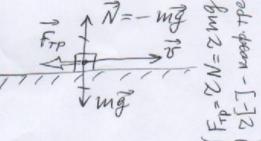


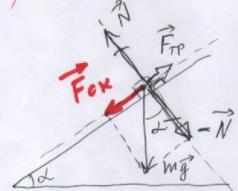
Динамика поступат. звижения

Quhanuka $P = m\vec{s} \begin{bmatrix} xr. M \\ C \end{bmatrix}$ U mysse $P = m\vec{s} \begin{bmatrix} xr. M \\ C \end{bmatrix}$ T = T

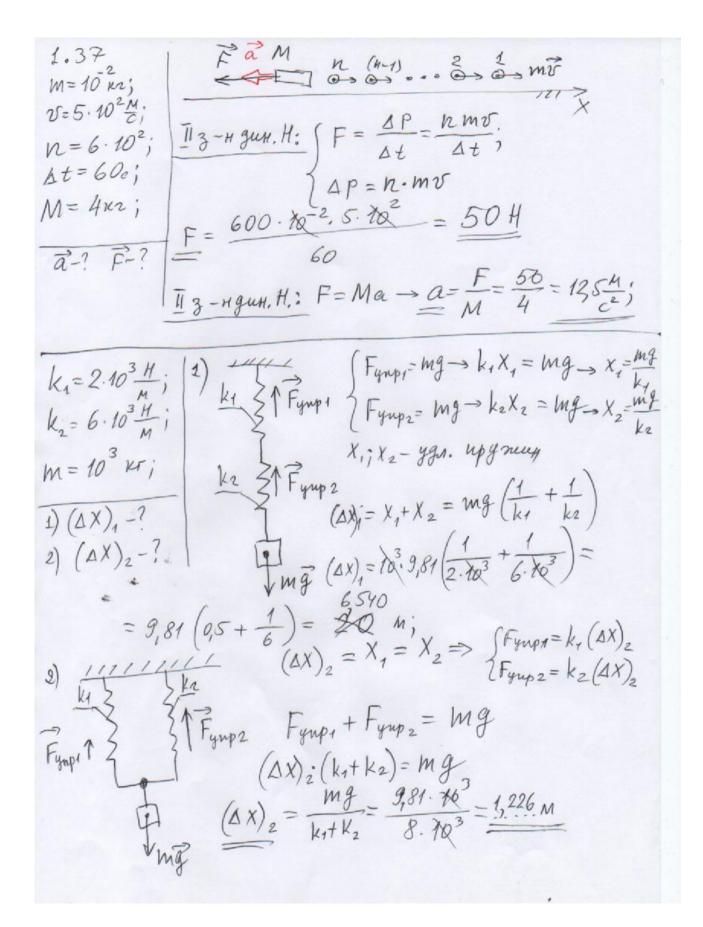
1 3-4 gun. H (roweth. m=cons) => F= ma -> F11a

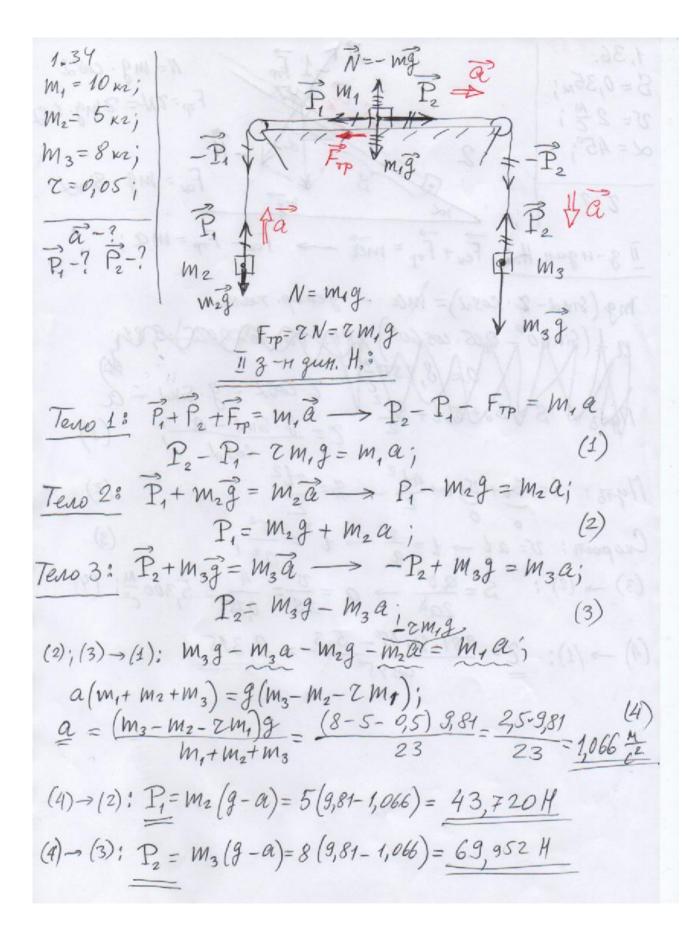
1) Temerin + Peakyus onoper Frp 1 77 (1) 18) Harrommans nu-To

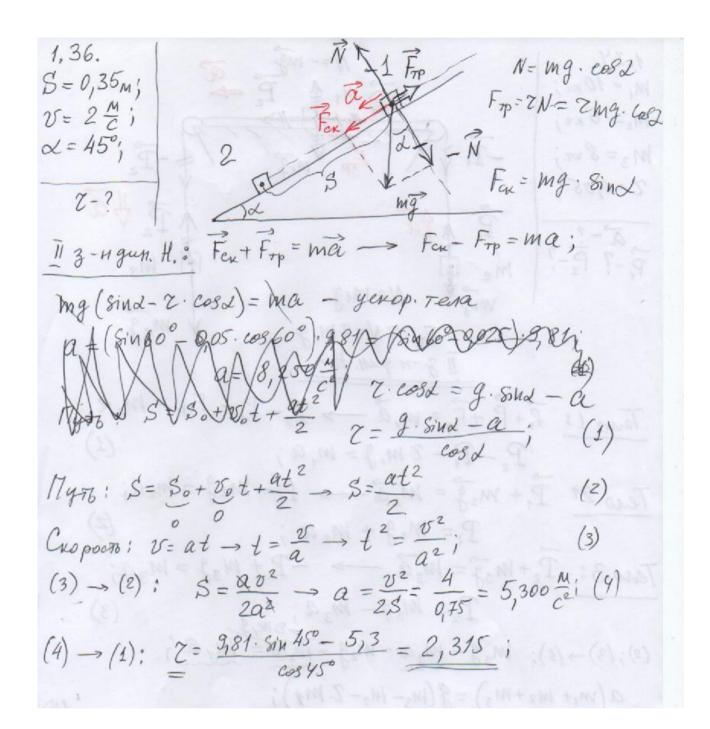




(N= mg. cos 2 - peaky. onopa Fox = mg. Sind - ckay. enna For = 2 N = Zmg. cos2 - Tpen. SFORT For = ma - 113-49. H Fox - FTP = Ma







нергия. Радота. Законы Работа: F[H] - сила; Z[M] - мере-A [9m] = Fz. cesd; 2) Kunetureckag Theprus: $|E_{\kappa} = \frac{m v^2}{2} [9m]; |m[\kappa z];$ $|\Sigma_{\kappa} = \frac{m v^2}{2} [9m]; |\sigma[\frac{M}{c}];$ 3) Потенциальная энергия: a) b nove TAXECTU: [E,= mgh[Dm] a) Zamkhyraa Mex. cuct. (Fip = 0): $E_{\kappa} + E_{n} = const; \} \Longrightarrow \begin{cases} E_{\kappa_{1}} + E_{n_{1}} = E_{\kappa_{2}} + E_{n_{2}}; \\ u \wedge u \\ \Delta E_{\kappa} + \Delta E_{n} = 0; \end{cases} \Longrightarrow \begin{cases} E_{\kappa_{1}} + E_{n_{1}} = E_{\kappa_{2}} + E_{n_{2}}; \\ \Delta E_{\kappa} = \Delta E_{n}; \end{cases}$

of Hezanikh. Mex. cuct. (For #0) [A E = ATP; www E1 = E2 + ATP;]

ATP = FTP. S; www [E1 = E2 + ATP;] Monthocto-Heprus (usu p-Ta)
3a Icek. (Power) $P = \frac{dA}{dt} = \frac{d(F \cdot S)}{dt} = F \cdot \frac{dS}{dt} = F \cdot S;$ $|\vec{F} = const; P = F \cdot v [B = \frac{v}{c}];$ Энергия

$$k=1,25\cdot10^{3}\frac{H}{M}; \quad F_{TP}=0 \Rightarrow \Delta E_{n}=\Delta E_{K}$$

$$\Delta l=8\cdot10^{-2}M; \quad 3-H\cos p. \; 9Hepz.$$

$$M=5\cdot10^{-3}Kz; \quad k(\Delta l)^{2}=M S^{2}\Rightarrow k(\Delta l)^{2}MS^{2}$$

$$F_{TP}=0; \quad 2=\Delta l\cdot\sqrt{\frac{k}{m}}$$

$$S=8\cdot10^{-2}\sqrt{\frac{1250}{5\cdot10^{-3}}}=8\cdot10^{-2}\sqrt{25\cdot10^{4}}=$$

$$=40\frac{M}{C};$$

$$M = 10^{3} \text{KT};
F_{TP} = 0,1 \text{ Mg};
V_{1} = 2,778 \text{ M/c};
V_{2} = 11,111 \text{ M/c};
S = 5.10^{2} \text{ M};
A-?
$$A = \Delta E_{K} + A_{TP};$$

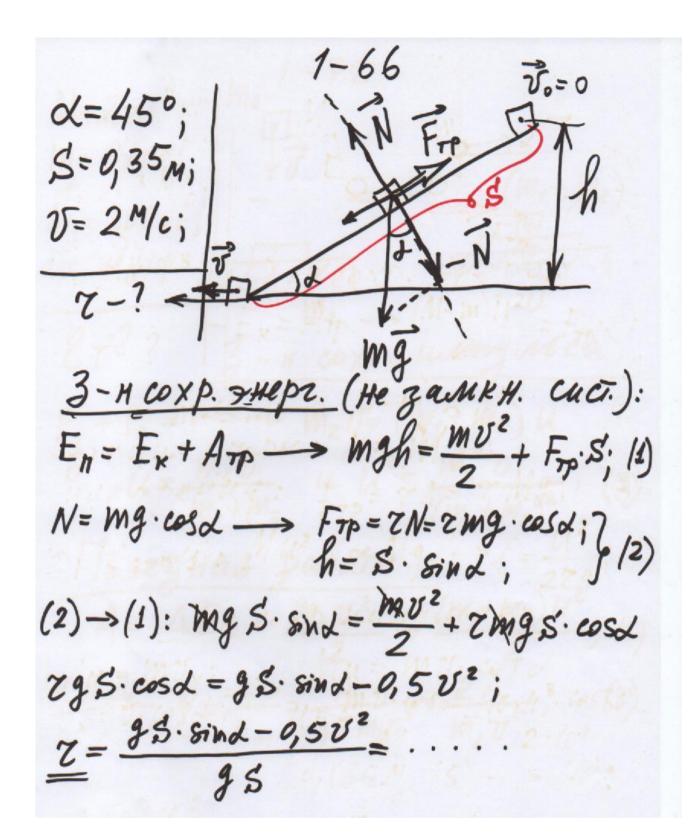
$$\Delta E_{K} = \frac{m(v_{2}^{2} - v_{1}^{2})}{2};$$
(2)
$$A = F_{TP} \cdot S = 0,1 \text{ Mg S};$$
(3)$$

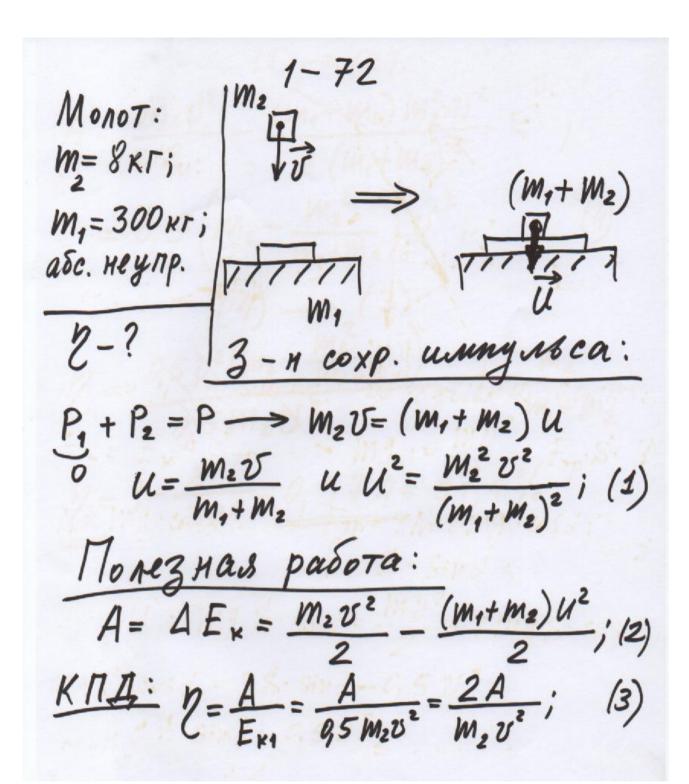
(2); (3)
$$\rightarrow$$
 (1):

$$A = M \left[\frac{v_2^2 - v_1^2}{2} + g \cdot \beta \right];$$

$$A = 10^3 \left[\frac{11,111^2 - 2,778^2 + 9,81.500}{2} \right] = \frac{2}{2} \mathcal{D}_{nc};$$

M= 2.104 KT; M= 10 KT; V=103 M/c; d=30° 7 = 2.10 $M \ll M \Longrightarrow (M-m) \approx M$ Peakyus onoper: N= Mg; FTP= ZN= ZMg; Cusa TPEHUA: (2); (3); ->(1): Mu2 = 7 Mgl-> l= u2 ; (4) 3-4 coxp unugueca: Mu=mox: _ Mu=mo. cosd U = M V. cosd = 10.103. cos300 1 5x = 8. cosd; =0,865 M (5) -> (4); $= 0.865^2$ =1,907.10=19,07m;





$$A = \frac{M_2 v^2}{2} - \frac{(m_1 + m_2) m_2^2 v^2}{2 (m_1 + m_2)^8} =$$

$$= 0,5 \left(m_2 - \frac{m_2^2}{m_1 + m_2} \right) v^2; \qquad (4)$$

$$(4) \longrightarrow (3):$$

$$V = \frac{0,5 v^2 \left(m_2 - \frac{m_2^2}{m_1 + m_2} \right)}{0,5 m_2 v^2} = 1 - \frac{m_2}{m_1 + m_2};$$

$$V = 1 - \frac{8}{308} = 0,974 = 97,4\%;$$

