Bacalarvent 2013 - Frzica

A. MECANICA

Subjectul I

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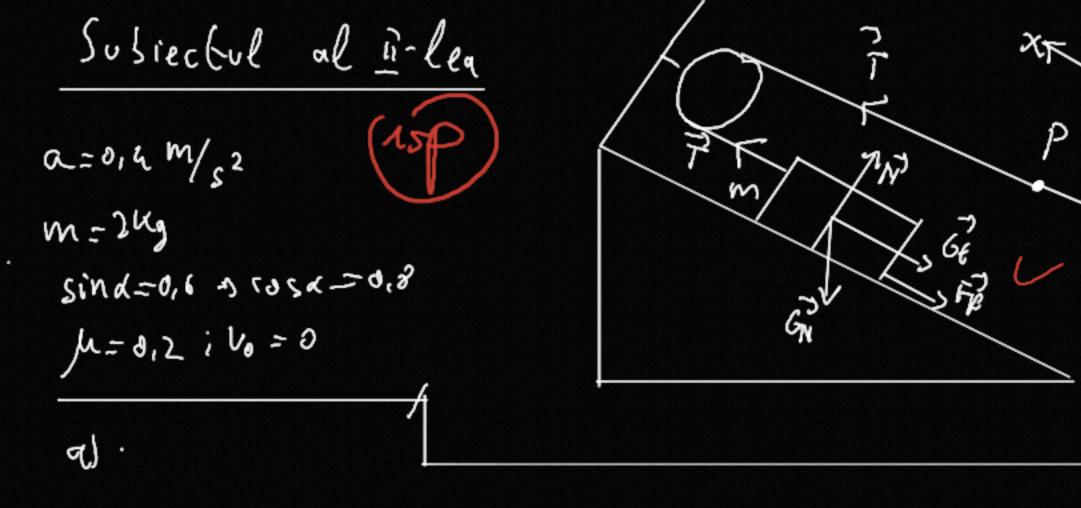
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P: Pe ox: F+F=m-2

si-T-m-a siF=T

m: Pe ox: I-mysina-ff=m.a

Fr= un-sina-un=m-a

Pe ag: T-my sina-un=m-a

Pe ag: T-my sina-un=m-a

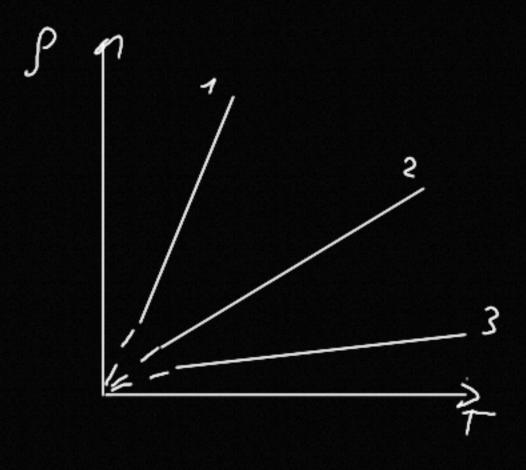
of T-mg sind - jung cosa = ma

al III-lea a) P=?; P= Lm = LF = 375000 w= P= 75000 w= 75 kw = P=75 kw b) LFR=?; îtie FR= konfa de resistență; LFR=FR·d; £c=Lwine=LF+LFR m=1,2t=1800 kg 37 Ec= mv3- mu2 = m (v2- v2) = LF+CFR = LFR = m (v2-v2)- LF V1 = 18km/ = 5m/s V2 = 72 /m/6 = 20m/5 => LFR = 1300 [400-25] - 375000 = 900.375- 375000 = 375 (300-1000) JF= 22 50 4R= - 37500J $||F_{t}||^{2} + ||F_{t}||^{2} + ||F_{t}||^{2$ 1) $V_2 = 20m/s$; i = 0; $F_R = f$. G: f = 0.04 = $F_R = fmg$; $V_3 = 0m/s$; $a = \frac{1}{2} =$ B. Elemente de termodinamica

Subjectul i

$$\frac{1}{2 - \left| \frac{2 \cdot p_0 \cdot V_0}{3R} \right|^2} = \frac{3 \cdot p_0}{3R}$$

PV=DRT



Subjected al m-leu (a) Ja=? Pava= Jarta =) Ja= P1V1 = 2-105.24,13.10-3
PTA = 2-105.24,13.10-3 10 = 2-188. 3-27. 10-3 () == mol $|J| \int_{2}^{2} = \frac{P_{2} V_{2}}{J_{2}} = \frac{P_{2} V_{2}}{R T_{2}} = \frac{P_{2} V_{2}}{P T_{2}} = \frac{M_{2} P_{2} V_{2}}{P T_{2}} = \frac{M_{2} P_{2} V_{2}}{R T_{2}} =$ V1=24, 53-10-3 m3 My= 32. 10-3 Kg/mol -1 9 = 12 P2 = 4. 10-3. 105 = 4.20 = 8,31.400 = 8,31.400 = 8,31.400 = 8,31.400 T1=300K Pr=2-10 Pa (-1p o) $t_2 \rightarrow 11$ = $p_2' V_2 = 2PT_1 \rightarrow p_2' = \frac{0.2PT_1}{V_2}$ $p_2' = \frac{0.2PT_1}{V_2} = \frac{0.2PT_2}{V_2} = \frac{0.2PT_2}{V_2}$ V2=16,62-153 m3 1=4. 10-3 kg/mol MD2=0,25mol i P2'= P2N21A1 = P2 = 12 T1 T2 = 4004 (14p $p = \frac{1}{15.105} p_{q}$ $p = \frac{1}{15.105} p_{q}$ P2 = 10 Pa Va itaifa d) μ^{-2} ; $\lambda_{am} = \lambda_1 + \lambda_2 = 2.25 \text{ mol}$; $m_1 = \lambda_1 \cdot \mu_1 = 64 \cdot 40^{-3} y; m_2 = \lambda_1 \cdot \mu_2$ $\lambda_{m_2} = \lambda_2 \cdot \mu_2 = \frac{1}{4} \cdot 4 \cdot 10^{-3} \text{ a)}$ $m_{\frac{1}{2}} = \frac{10^{-3} \text{ hy}}{2 \cdot 10^{-3} \text{ hy}} = \frac{10^{-3} \text{ hy}}{2 \cdot 10^{-3}} = \frac{10^{-3} \text{ hy}}{2$ m 31 05

$$(v = 2.5 R)$$
 $P_1 = 1.0^5 P_0$
 $A_{23} = 3300)$
 $In(3) = 1.1$

$$\begin{cases} P_1 = p \\ V_1 = V \end{cases}$$

$$\begin{cases} T_1 = T \end{cases}$$

$$\begin{cases} 12 = 34 \\ 12 = 34 \end{cases} \begin{cases} 13 = 34 \\ 13 = 34 \end{cases}$$

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12:
$$i \neq 0$$
 cot $i = 3$ $V_1 = V_2$ $i = 3 + 3$ $i = 3$ $i \neq 3$ $i \neq$