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26.02.2021
Cl. 9a _ $21,3 _ Rez. de pb _ Ciocuiri elastice si plastice
man . cl. 1x- Hrister
(30/179) Dona bite de mase m, si'me suit suspendate de fire parstele, astfel ca bitete
         se ating. Prima bilo este departato, pana ajunge la maltimea ho.
         La ce maltime le, h2=? ajung bilele dupo, a) ciocuirea elastico. E) plastico c) câto colduro Q=? se degaja in cozul c. plostice 6 menger
 m1=3 Kg
                   Obs pb. combina : Leg. cous, tot
 luz=2 Kg
                   (a)-cioen elastico in starea (A)
 ho=0,4m
  l= 1 m
                     (m); E(Ao) = E(A) (1)
  a) c.el h, h2=?
                     S Ex(Ao) = Ec(Ao)+Ep(Ao) = 0+ m,gho

Ex(A) = Ec(A)+Ep(A) = m, 20+0
  b) e. plast. h = ?
  c) Q=?
                      decits: magho = mino - x (No= 29ho).
   pentru ciocnirea mi sur in starea (A) aplicamade 2-legi de cons DP =0
     1) Sp=Pf-Pi=0 -) Pf=Pi
                                                   Pi= 14, 16 ; If= 14, 14 m2 v2
    2) NEc=Eg-Eci=0-0 Ecq=Eei
                                                 Eci= 1470 , Eef= 1472 + 1422
    ec. de conservare divin,
  ((1) ming = mini + ming ->
                                        W1(20-V1) = W2 V2
   (5) ming = ming + mong mi(non) (non) = mong (5)
     \frac{(2)}{(11)}: \rightarrow v_0 + v_1 = v_2 \rightarrow v_7 = v_0 = -(v_1 - v_2)
   substituin pe vz in (1) aven:
    maro = m12, + m2 (20+2,), acum separo, m (m,-m2) vo = 2; (m,+m2)
    deci [v_1 = \frac{u_1 - u_2}{u_1 + u_2}] \cdot v_0 san [v_1^2 = \frac{u_1 - u_2}{u_1 + u_2}] \cdot v_0 informing an inaltimise
                                                          (Ni=29h1; N=29ho)
    V2= No+Ny (2) &
                                     h, = ( \( \frac{\mu_1 - \mu_2}{\mu_1 + \mu_2} \) ho
v_2^2 = v_0^2 \left( \frac{2 u_1}{u_1 + u_2} \right)^2 - \frac{2 u_1}{u_1 + u_2} = \frac{2 u_1}{u_1 + u_2} \cdot h_0
  Calculal numeric:
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h_1 = (\frac{\mu_1 - \mu_2}{\mu_1 + \mu_2}) \cdot \ho = (\frac{3-2}{3+2}) \cdot 0 \mu = (\frac{0}{5}) \mu = 0 \frac{0.8}{5} \mu

h2=(2m1/m2)·ho=(2.2).0,4m=(1,6)m=0,32m

