De o griudo ontoutalo. Sunt suspendate dono corpuri de mast diferite (m. +8 kg) si (m2 = 6 kg) prin intermedial muni sistem de doi sempeti (fix si mobre) en ajutoral a direct fire call fig. Sà se determine: a) - figurati toate fortele din tistem. b), - determinati acceleratible (a, a) sisensuti a) - determinati toate fortele din sistem d) - V=? t=0,55, X1 =? e) vz=1 t2=25, x2=) (B) R, = G, + T, = W, a, ; R2 = G2 + T2 = W2'a2 a1=2a2 (G2=42-9 (1) 2041: G1-T1=141:91(1) 2042: T2-G2=142-92(2) R3= T3+ 1/+ 1/=0 (041) - T3+T,+T=0. Reservem ematile: (1) G1-T1=41, Q1 -T1=41, Q1/2 (2) T2-B2=M2a2, 27,-M2g=M2a2= M2(2) (Oge): TI+TI-T2=0. T2=2T1 (4) (4) To = 2T1 (5) | a1 = 2 a2 | -> a2=(a1/2) 2 2 mg - 27, = 2 mg a, . 2 - mg + 27, = 1/2 mg a, . g(2m,-m2) = a,(2m,+m2/2) $\frac{1}{2}\alpha_{1} = g \cdot \left(\frac{2w_{1} - w_{2}}{2w_{1} + w_{2}/2}\right) = 10 \cdot \left(\frac{2.8 - 6}{2.8 + 6/2}\right) = 10 \cdot \frac{16 - 6}{16 + 3} = \frac{10.10}{19} \approx 5.1 \text{ Wz}$ az = a1 = 5,1/2 ~ 2,55 m/s2. dia ec. (1) -> T1 = w191 - w191 = w1(9-91) = 8(10-5,1) = 40 H. ee-(4) - Tz = 2T1 ~ 80H. ec.(3) -1 T3 = 2T, ~ 8014. d) , n= atroparus, n= a, t = 5,1 w/2. 0,55 = 255 m/s.

x=vot+at2 = (vo=0) x1 = att2 = 5,1. 0,25 = 2,55 m/s.

v2=v02 + 200x2 = 0,05 m. $v_2 = a_2 t_2 \rightarrow v_2 = 2,55 t_2 2s = 5,1 \text{ m/s}.$ e) $\sqrt{x_2 - \frac{a_2 t_2^2}{2}} \rightarrow x_2 - \frac{355.4}{2} - 5)1m$.