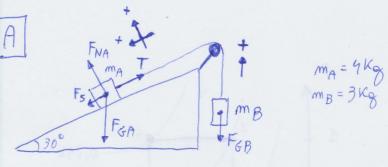
FISICA 1 - 01/07/2013





Il sistema si muore. A sole verso la cima e B cade.

B]
$$m = 1 kg$$

$$K = 4 N/m^{2}$$

$$A = 3 m$$

$$W = \sqrt{\frac{K}{m}} = \sqrt{\frac{4}{3}} = 2 \operatorname{nod}/3$$

$$\times(t) = A \cos(wT + \varphi) = 3 \cos(zt)$$

$$v(t) = -A \omega \sin(\omega t + \gamma) = -6 \sin(zt)$$

$$a(t) = -Aw^{2}co(wt + \varphi) = -12cos(2t)$$

$$K(t) = \frac{1}{2} mv^2 = \frac{1}{2} (-6 \sin(2t))^2 = 18 \sin^2(2t)$$

=-0.7541.25+1.5-2.5 =-0.5 (Filedon Colore

$$V_1 = 1 \, \text{m}^3$$

$$T_2 = \frac{P_1 V_1}{MR} = \frac{1}{8,32} = 0,12 \text{ K}$$

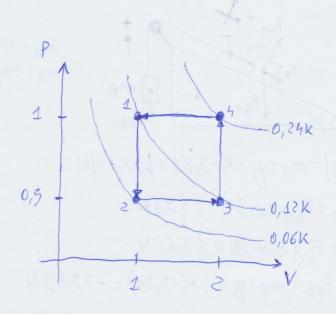
$$P_3 = 0.5 \, \text{N/m}^2 \qquad \text{[Iscord 1]}$$

$$T_z = \frac{P_z V_z}{mR} = \frac{0.5}{8.31} = 0.06 \text{ K}$$

$$P_3 = 0,5 \text{ N/m}^2.$$
 (Ixobora 1)

$$T_3 = \frac{P_3 V_3}{mR} = \frac{0.5 \cdot 2}{8.31} = 0.12 \text{ K}$$

$$T_{4} = \frac{P_{4}V_{5}}{MR} = \frac{2}{8,31} = 0,24 \text{ K}$$
 (Isoboro 2)



Isocora 1:

$$Q = m c v \Delta t = \frac{3}{2} R \left(T_2 - T_1 \right) = \frac{3}{2} \cdot 8,31 \cdot (-0,06) = -0,75$$

Isobora 1:

Iscoro Z: