

Fr= m.g =5 kg . 9,87 m = 49,04N

gra: $m_z = 5t_0$ m.q = m.g. sin(α) 1: m $\alpha = 30^{\circ}$ $\alpha = 9 \cdot \sin(\alpha)$ $a = 4,905 \frac{m}{s^2}$ V(t)= a.t+16 V0=0 V(4)=4,905 1/2.4 = 19/62 =

$$9^{\circ}5: L=1m \qquad T=2\pi \cdot \sqrt{\frac{c}{9}}$$

$$y=20^{\circ} \qquad =2\pi \cdot \sqrt{\frac{c}{3}m_{m}}$$

$$=2,01s$$

989:
$$m_1 = 0.12 \text{trg}$$
 $m_2 = 0.7 \text{trg}$
 $V_1 = 2 \frac{m}{5}$
 $V_2 = 0 \frac{m}{5}$
 $V_4 = 2.16 \frac{m}{5}$
 $V_6 = 2.16 \frac{m}{5}$

929: h=0,5m

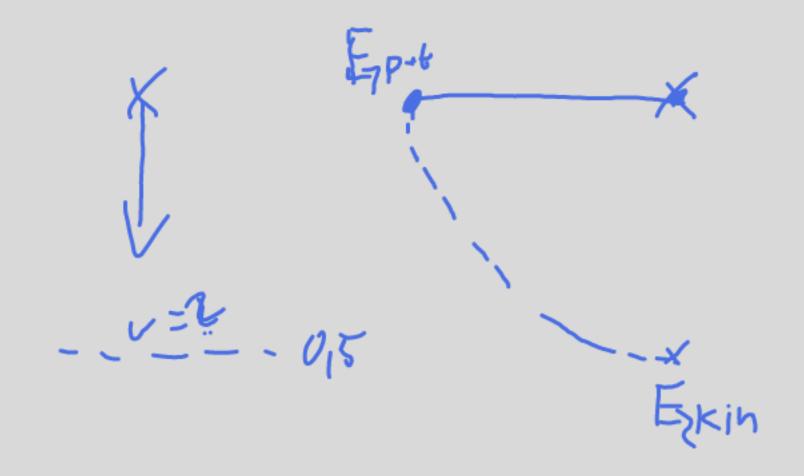
$$E_{1}p_{ot} + E_{7}kin = E_{2}p_{ot} + E_{2}hin$$

$$E_{1}p_{ot} + E_{7}kin = E_{2}kin$$

$$pr \cdot g \cdot h = \frac{2}{2}xr^{2}$$

$$g_{1}81\frac{m^{2}}{5^{2}} \cdot 0,5m = \frac{1}{2}v^{2}$$

$$g_{1}81\frac{m^{2}}{5^{2}} = v^{2}$$



C: Schallnelle

$$t' = 440Hz \cdot X$$
 $t' = t \cdot X$
 $t' = t \cdot (C + V)$
 $t' = 440Hz \cdot (\frac{343}{343} + 207)$
 $= 465,66Hz$

f1 = 400 Hz f2 = 402 Hz

$$t_{\text{Schull}} = |t_1 - t_2| = 2 H_2$$



