h=2,25n Vo= 3 m/c Tobna eneprie auchem : F-? == ngh+ 2= 2 (2gh+ vo2) Eneprie ware bigarony lig zemi Erzugh Aon = - 4 = - (E-Ex) = Ex - E Aningh-ngh-2 - 2 Toesona cum ongry nolinga Aon = An + A23 = Finds col 180° + Fond 5 col 180° = = -2 Fon d5=-2 Fon h -2 Fon : h = Aon = - 2 -2 Fon h = - 2 -2 Fon h = - 2 Fon = 4 - 0,5.9 -4:2,25 = 0,5 (M)

Dyo John Mobne mercature exceptil cuchem: E= ung. (h+Xm) 1. Mexanique eneprie represente le posony cum gymani  $E = Aup = \frac{K \times n^2}{2} \Rightarrow K = \frac{2E}{\times n^2} \times 2$   $K = \frac{2 \cdot n^2}{2 \cdot n^2} \times \frac{2E}{2 \cdot n^2}$ Is bungay and mynimision gojulomas Curi porgina morning Fins = mg => K to=ng => to= K Xo= 2mg(h+xm) = 2(h+xm) = 2(h0+70) - 1

@ Duro. 1-E= 2+ 2 1 3 Dono: my=1 kg Gymany 00. m== 2127 m, V1= m, V2 => 2/1 = m, V2 2 U=3 Am U= 2 · (my) V2 7 2 22 V1. V2-? U= 2m, V2 + 2 V2 2m. U = m2 V2 + m, m. V2 V2 (m2 + m, m2) = 2 m, V  $\begin{array}{c}
\mathcal{V}_{1} = \sqrt{\frac{2 m_{1} \mathcal{U}}{m_{1}^{2} + m_{1}^{2} + m_{2}^{2}}} & \frac{2 \mathcal{U}}{m_{1}^{2} + m_{1}^{2} + m_{2}^{2}} & \frac{2 \mathcal{U}}{m_{1}^{2} + m_{2}^{2}} &$ V = 13 = 2 m/c V2 = 1 6 = 1 m/c 2= D Dono. ma, ma, M 3a zaponon zdepemenne nabroi mescaniznoi. eneprie: mig M= 2 => Vo=V2gM Ocation I my Kamunico no cubrigaimo aominos monde uper zimmerne ognamole, do zrienumo miles dig novementoi bucomH. There nergy minoro zingapienie: (mytha) Vi= my Vo + my Vo -my >me : (m, +m2) V1 = (m, m2) V0 -Ling Jung (Jung + ma) Vo - (m2-ma) Vo matmal Va = Imamal Vo Vi = Imy-mal Vo my+ma Vo my+ma gh= 2 2gh = Vi => h= 2g Vi h: 29 V3 (1m1-m2) 2 Vo (mg-m2) 2 h: 29 V3 (m1+m2) - 29 (m1+m2) 2 h: 29 M (m;-m2) = M. (m1-m2) 2 mg+m2

go zimpreme 6 Dans any of nicul zintneme m, V, M.V. Q-? Lanon zalgeneeme innyusig: m V1 = U V3 + m V2 UN3=~ (V.- V2) => V3= Tu (25-V2) Barnon zoegrenen enepri m 1/2 = Q + 1 1 1/2 + m 1/2 Q = 1 (V1 - V2) - 2 Va a = = (V12-V2) - 2 : The (V1-V2)2 Q - 2((Vi-V2) - TU (V1-V2)2) a = 24 (U(V, -V2) - m mul V, -V2))