d. 9a _ 5/18,2 _ Ret de pb. _ Energia mecanica si teorenelle Historix-x de codservateti variative. | Et=Ee+Ep. | SEt=-Linee, leg. var. everg Epj=Eo+ligh DEc=lef-Eci]=L] DEi=Ej-Ei=-LFinec 2 DEp=(Epf-Epi)=-L | DE+=(Ef-Eit=0 -) Ef=Ei [L=Fd=Fdcox. L Legicous, energ 1P= L/4= F. 2= F. v. cosa; 2= [[] (1)<1. Lo=tGh, Lf=-fj.dco, Lfe=-Kx2=-K·Ax2 1/ Un corp cu masa m = 2 kg este anucat in sus cu v= 15 m/s. Sa se determine: a) Eco-emp. cinetice initiale, b) Hwx-inaltinea maximo de uneare. c) Ellesi Ep/2/a Huox/2 d) h-inaltinea la care Ep(h) = Ep(h). Rejolvarea energetica a) Ee=who = 2 / 152 = 225j No=156/2 b) (Atc=LG. (4) 9) Eco=?) Stc= E(B)-E(A)=0- wy2 h=Hwx/2-(C) b) Hunz=? 2LG =-G.R=-G.Hwx. C) h=Hwx/2 E(2=) E/2=? (1) = - u 1/2 = - G. Hux (61) d), Ec(h)=Ep(h) $H_{\text{max}} = \frac{\text{m vb}^2}{2 \cdot \mathbf{G}} = \frac{\text{m vb}^2}{2 \text{mg}} = \frac{\text{vb}^2}{2q} = \frac{15^2}{2 \cdot 10} = \frac{227}{20} = \frac{47}{4}$ C) h=(Hox/2)=43 m. ~ Ex=te = (uv) + ug he)(*) a > (A) = (A) + (A) = (A) + (A) + (A) (Ep(h) = wighter > E(c) = E(c) + Ep(c) = mye + mg he Ep(h) = Ec(h) = my = mgho (*) 1/20 = 2 / 1/20 - hu = (202) = 225th 45 m. LED = wyb2 + mgh D, = 2 mghp.

