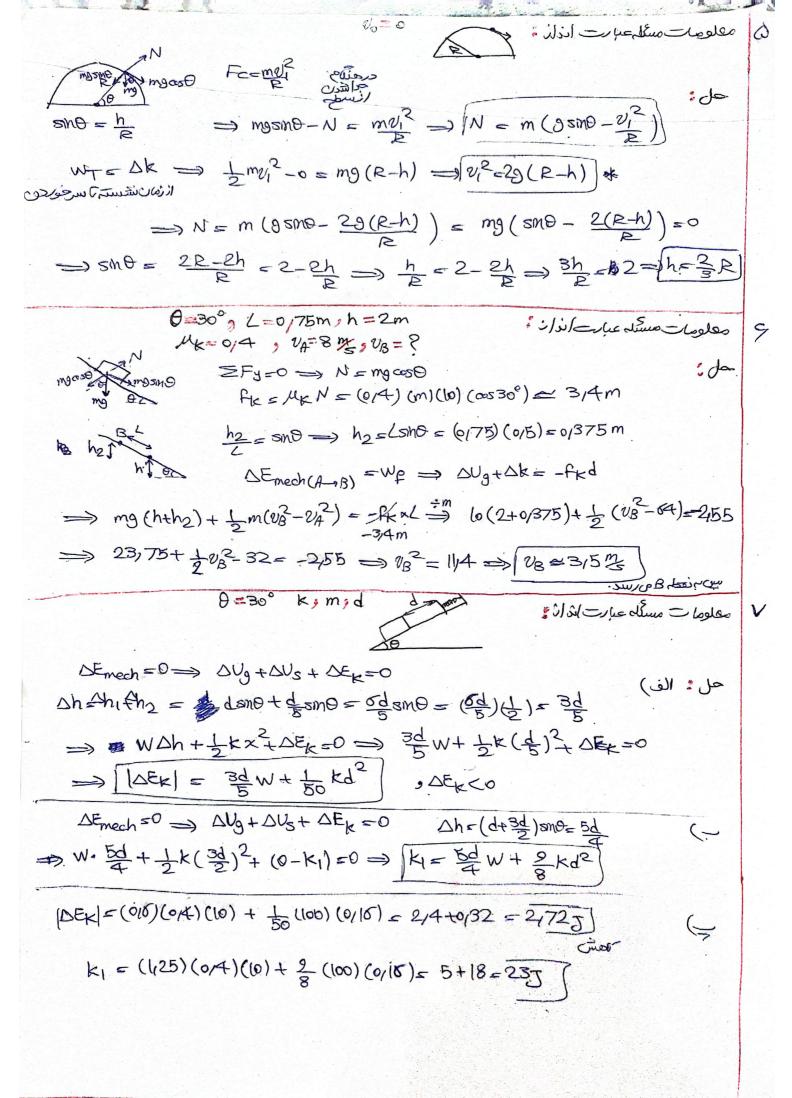
Tues Toly 80 11 PO 14031 طيريك ل نامونام المنافع المان علاس مكشنبهاو سيشنبها روزوساء كالس شماره دانشووی، ۱۰۴۸ ۱۰۱۰ ۱۰۱۸ مرين سرى سوم 14 - CA:09 ا معلومات مسئل عبار انداز: K=50 Nm -000000 + E=3N WT = DK = N=0 => WS +WF =0 حل : الف) => - \frac{1}{2} kx2+ Fx=0 => x(-\frac{1}{2}kx+F)=0 => x=2\frac{2}{2}k=0.12m =) [x=Rcn] WF = F. R = 1 Flor | cos q = 3x0, 12x1 1 WE = 0/362 $W_S = -\frac{1}{2}kx^2 = -\frac{1}{2}(50)(0/12)^2 = -0/365(2)$ $\Delta K = WT \Rightarrow K = W_S + W_F = \frac{1}{2}kx^2 + Fx$ $k_{moio} = k = -kx + F = 0$ $k_{moio} = k = -kx + F = 0$ $k_{moio} = k = -kx + F = 0$ $k_{moio} = k = -kx + F = 0$ $k_{moio} = k = -kx + F = 0$ $k_{moio} = k = -kx + F = 0$ $k_{moio} = k = -kx + F = 0$ $k_{moio} = k = -kx + F = 0$ K = - 1 kx + Fx $k = -\frac{1}{2}(50)(0.00)^{2} + (3)(0.00) = 0.09$ t=T, p=p+dp ilili = lester tooler $W_T = \Delta K \Rightarrow pt = \frac{1}{2}mv^2 - \frac{1}{2}m(0)^2 \Rightarrow v = \sqrt{\frac{2pt}{m}}$ حل ؟ $v = \frac{dx}{dt} = \sqrt{\frac{2pt}{m}} \frac{dlimetersi)}{entropied} \propto |_{0}^{\infty} = \int_{0}^{t} \sqrt{\frac{2pt}{m}} dt \implies x = \sqrt{\frac{2p}{m}} \int_{0}^{t} \sqrt{t} dt$ $\Rightarrow x = \sqrt{\frac{2p}{m}} \left(\frac{2}{3}\sqrt{t^3}\right) = \sqrt{\frac{8pt^3}{9m}} \Rightarrow rise$ $2^{2} = \frac{8pt^{3}}{9m} \xrightarrow{\text{curbication}} 0 = \frac{8}{9m} (t^{3}dp + 3t^{2}dt - p)$ >> tdp+3dtp=0 >>3dt=-t \$=> dt=-\$.\$ Ydt= - T dp

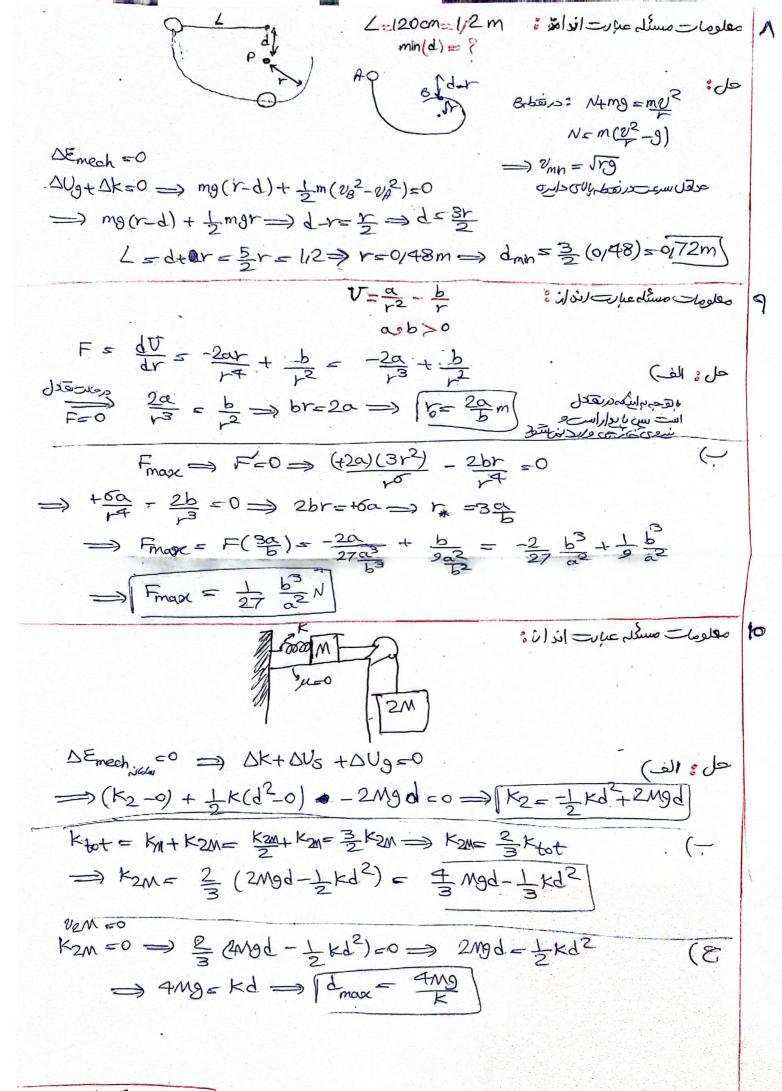
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F=2Broji+B23 m=2kg, 20=2m معلومات مسئله عبارت انداز: W= Fdr = [(2Bxy i+Bx2j).(dxi+dyi) 5 do W= SrizeBx2dxi+1. (b)Bx2dxj dy=bda W= &B Steredxi+ redocj ri= 0140j Te = ai+bj W = \ B \ [a 2x2dxi + x2dxi = \ \ B \ (\frac{2}{3}x\frac{2}{3}) \] W= &B(a3) = bBa2 WT = DK => bBa2 = 1 m(v2-162) => bBa2 = v24 = = 10 = 1 bBa2+4 m=1800kg, d=3,7m, k=1,5xlo5, Nm : Wil = 1/2 + 5mo - Lodes Ffric = 4,4xlo3 N **D** W+=DK => mgh-fpmc-h=1m02-0 18x lo3x 3,7 - 4/4x lo3x 3,7 = 900 02 =) 02 50,32 = 10~7/4 mg 2000-00001: WT-DK => Wg+WF+ W5=0-1m0,2 كالزمان فتشردتني بسيسين => mg/x-fr/k - 1/2 kx2 = -1 me/2 => 18xloz_4/4xlo3x - 7/5xlo4x2= -9002/2= -50/32xlo WT=DK => Wg + WFRIC +WS = 0-0=0 () => -18x63d - 4/4x13d + 1x15x64((0,9)2-0) => 22/4d = 60/75 d = 2,7m JUSICIO: mg=kx =) x= mg = 18x103 = 1/2x10=0/12m (= CIEMY: WT = DK = 0 => Wg+wffna+Ws=0: = 18x63 (3/7+0/12) - 4/4x63xd + 1x15x64 (0-(0/12)2)=0 => 08/70 xlo3 /- 1/08xlo3 - 4/4xlo3d \Rightarrow $d = \frac{68/78 - 1/08}{4/4} \approx 15/3 m$

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