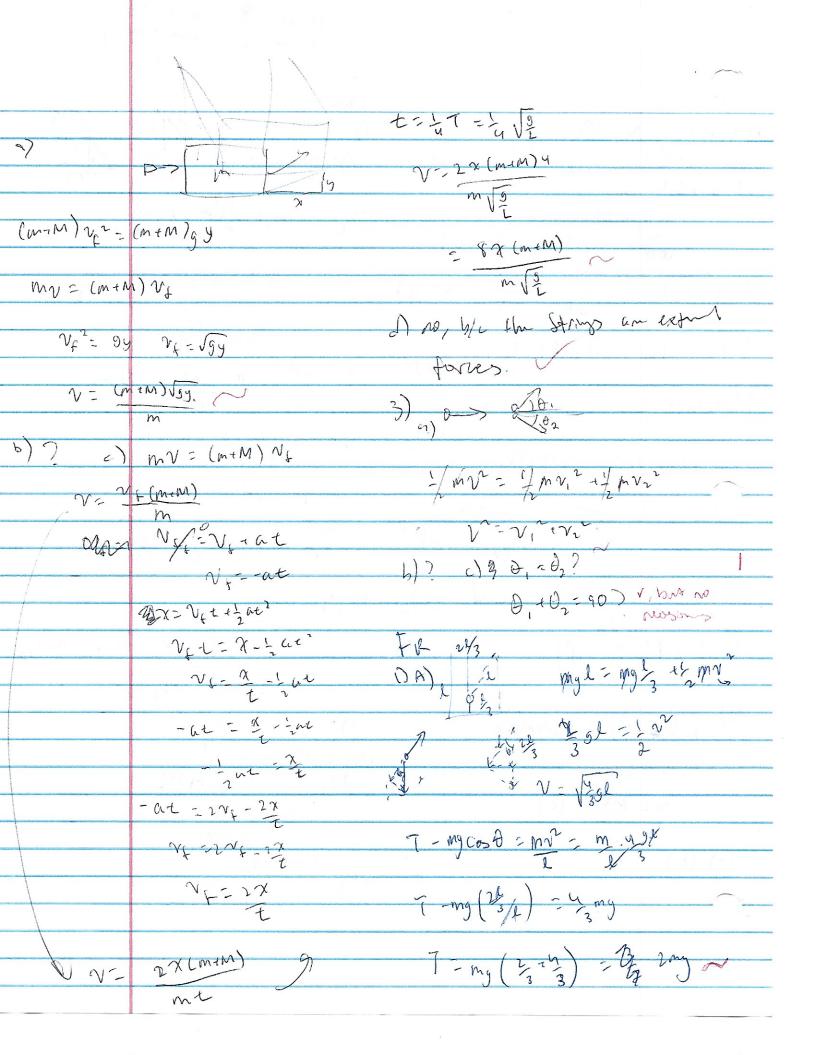
Black 8 pr & 8 Black 3 Brack + Blow 11 Total 19 FKQ A) & OD THE STATE OF THE STATE 1) P=mv ~ 373 8-200 = 4.5,2 = 97 (C) V 2) J-FDF = Dp · V - mg L = With a phy L 3 2 m. = st - NON St= 0.15 (c) V2 = 2 5 L - 25 L = 3 52 3) J= FDt F= = 160 (e) a) 10=-Pr 3=01=1f-10 = 2 2mv cd) - Fr=inv2 - m, = y, ng 5) $m_{1}v_{1} + m_{2}v_{2} + m_{3}v_{2}$ (e) $m_{2}v_{3}v_{4} + m_{2}v_{2}v_{3}$ (e) $m_{3}v_{1} + m_{3}v_{2}v_{3} + m_{3}v_{2}v_{3} + m_{3}v_{3}v_{3} + m$ N = M1 V V23N = (ary = 10) D T= mg (4 +2) = 12 mg 7) verester, momber agent (c), o)-vir-myL 8) and 1 (B) N= 12gl & my = mVf = 4mVB Vo = V, +4V2 ~ m V = MV = amendro 93 WA = MA N= MV (9) (o) (E) (c)

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1 m v 2 + 1 M v 2 - 1 m v 2 + 1 M v 2 mvb. - Myt = mvot - Mvrt Nif (1+M) = 2 Vigl (Vis -) m(Vb) Vb) V4 (mem) = 2522 Vic - 2 /2/2 · m = 2/3/2 · m + 1/n NP = WN PO-WNIE - No - M NL J NP = NP - 12 Nrt 1 m v5 2 - f m v 2 2 = \[\frac{2}{29} \land - \frac{100}{100} \cdot \frac{2}{5} \land \frac{729}{5} \land \frac{2}{5} \land \frac{729}{5} \land \frac{2}{5} \land \frac{729}{5} \land \frac{1}{5} \land \frac{729}{5} \land \frac{1}{5} \land \frac{729}{5} \land \frac{72 - Vagr - 8 Jul 7-1 = m (Vb0 - Vb6) = - 3 5 742 - m (2gl - (Egl - MV2f)) might = 2 m voz h = [(- 1/2/2 L) - M 292 - 29L - ANDA 2/29L M 8/2+M2 V20) - m (2/29 L - VL + 12 VL) the total the my vie

C) N- WHON かんしつ a) mv = (m+m) vp pendulu of small 2 approx - (min) of - (min) gy No well Nt 7= 20 + 2 at2 t = = = = Myon Ne-vo al

Ne-vo raby

3)

The mask of the second results of t V-, Mr M Jzgy b) = mv2 -> WEO = = = m. (M+M) (294) LEF som = = (m+ M)(299) = (m+m)gy M, V = - M, 1/2 + M2 V29 KES - MTM gy M $m_1 v_{1y} = m_2 v_{2y}$ $m_1 v = m_1 v_1 \cos \theta_1 + m_2 v_2 \cos \theta_2$ $m_1 v_1 \sin \theta_1 = m_2 v_2 \sin \theta_2$ m(n+m) gy a) elastic - KE consurant LLE = m (M+M)2 gy (CE)-1 mv2 MAE KE;=KE;-1-m,v,2+1,m,v,2 = (m +m)2 gy 777 KE = (MTM) = M (M)(M+MTgy 0) = m(M+m) Lors in the collison - sound, hear, Vibration, otc.

2) b) KE + = = 2 (m+m) ~ = - 2 (mm) ~ 2 2 - 2 (m + 2 Vin V2-cos (0,+02) + V20 DUE= WES- WE == 1 mon 2 -1-M 1660 1) a) 7=3 mg -3)a) my - mv, 650, +mv26000 MN Sind, = Mrzasintz > mv2 = > mv2 + 12 mv 2 Vaccosta EV-Via cost Vasint, - Viasinds V20 (V-Videost,) + Viasino 201 - V2- 2V Via cost, +Via 22-212 - V2-22Vin Cosoft 2 la 2 Via = 222/4 Costia (LE1 = 1 mvia = 600 20 m = 000 0 alte b) Kizn= 2 myzn= = 12 my - 12 myinz = KE - Los 0, a KE, = KE, (1-6050/2) = Sin 2 D, VE c) My vi ria costo in ervia Vincosti - Vi cost2 Ozva Si-bin wasasadusada ナヤーラいかりか