

Demonstrate and and was

THE UNIVERSITY OF MANITOBA NAME SECTION . PROBLEM COURSE massless 7, >-If pulley has mass (shon m I)! m,8-m28 I=mr2 -> m=== m the + == - (Vem) + (Vem); A (Ven) = 13,3 m/s (Ven) = 13,3 m/s Vem 19.72 + 13.32 = 16. 4 7/6 m/s/ 11. my Xcm = Emili = origing Xcm =0 m, yem) = [mili = DI 0= 40(3) +50(-1) +20x3 (-1,7) 12. Impulse = mav . B Impulse = 14 (-3-5) = -32N | Impulse | - 132N) 13. 3(5) +2(-2) = 3(1) +2 ×2+ - 4 =/5 E E: = = (3)5" + 1(2)2" = 41,5 2 6 - 1(1)1 + 1(1)42 = 175 J 6-6-1= -247 14. 0 = rad/s w := ? 0 W= JW; - 200 = Maz - 2n' = 12a' = 12a' 0 = n We = 2 a rad/s W = 4 K6 = 1 T (W2 - W8) = 3007 16. 0x = 2 rad/s= W: = Oradis 10 LE = 5 5 typ= hitat = 10 rods P=mr wf - 32 va - 3 v. A Tof boy E W=mry mvr = (mr2 + I) w mr1+I 20. R = Roully + Lm + lm V= FW D W= ¥ = Iw thur they = 24 + mire tomer = [= +(m,+m,2)]レ

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10 = 40(1) 1 = (4) + 10 4

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YEAR _____ NAME THE UNIVERSITY OF MANITOBA SECTION . DATE PROBLEM COURSE + litarits conson of p along doubt wats 1: 7(3) = 2(15) cos 30 + 1/2 cos 8 1: (1) = 84, 0 = 7(15) sm30 - 1 /2 Sm8 B 3,72 0 = ton -1 (45) = 23,800 v=-0.8c E = 0.76-(-0.80) 1 - 0.76(-0.80) (0,7+at)e = 0.96 let = P V=Bc L = 5 = 100 = TEL 1. 0 = 1-B = 1,156 8-0,5 = 100 0.5 (37105) = 6.67 x10 3 [667 ns] 25, 4t = 76.6 = 5.77 10-75 667 = 587 ns 157795 OR