Physics 200 Proj. motion quiz 1.0 Name Front & Back Then: Forces: Tension, Pulleys, etc. Quiz Solution if you want. 30 Por - Nox = horiz. X(t)=* 16:0 Voy=0 x(+) = 26 + Vot y: Set y=0 to find t. 0 (I) y(+)= 40 + 205t + 205t 2 0=1.1m+0-29\$ -1.1m -4.9m/3= t -> |t=0.4745 x(+)=5.5%·t=[2.61m=x]

(after 6 pm. Forces: F1,2 = - F2,1 4 OH on Thurs. maybe in STEM Center 2F = ma Wno forces, Q=0 and P= const. El Dovedollall move hw 3 FN 13x back: due Sat/Sun mig mig a Ideal String/Rope · mass less · Mostring << Mother · Force Tension is uniform Given: M, M2 9 Pulls boths ends toward center picture toward center ideal string + Pulley pulls string + Pulley pulls string toward center line Ideal Pulley Want: Find a of each mass low mass low friction + tension instring. -7 Tension is

 $F = m, \alpha$ * FT = MIQHE ZFy = m,(0) ay=0 FN - Mig = 0 ? meh? ". FN= Mig yay: 1: IFx = Mzazx EFy = maazy - mza $-m_2q =$ mia - mig = ma + mza = mza $a(m_1+m_2)=m_2q$ a= m29 F- = M, G m,+mm, mzg M_1+M_2 Ideal pulley find: Fr and a each