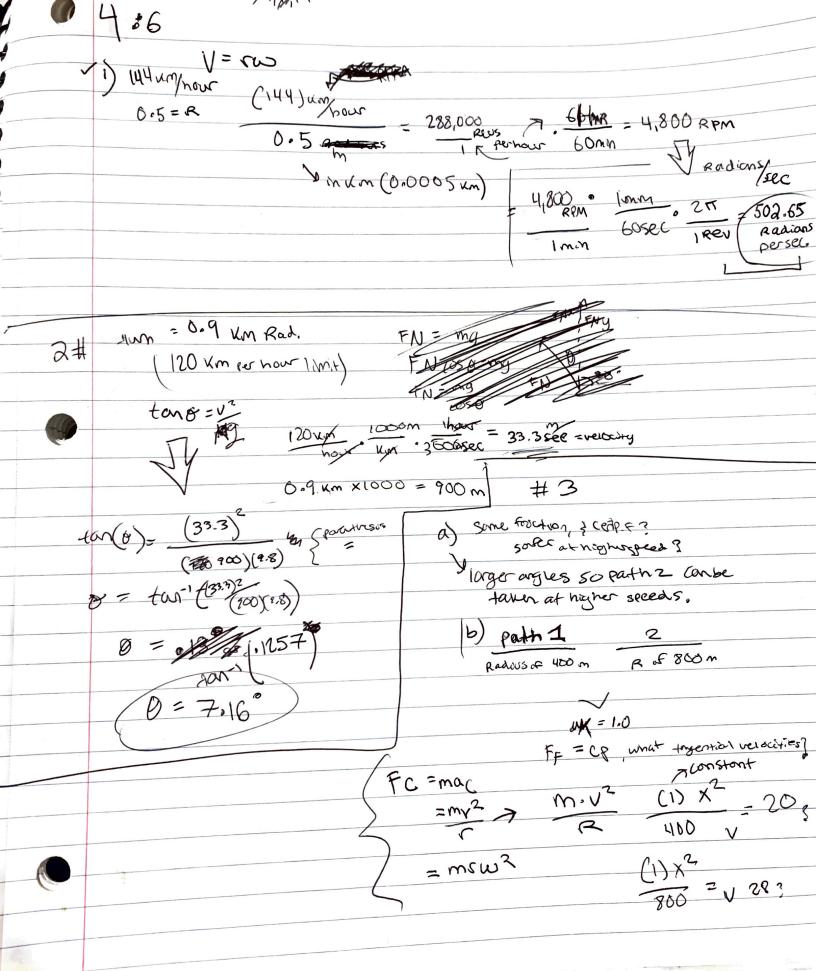
CY. (1/11) 1 : Dynamics Fine ventors (aux or motion accevation 2 15 210 N (2) 6 mass 70 kg fora 1,700 N a= F-Fa-mg Fret=p-+=ma = (1.25 x1/4)-(4.5 x16) FAB=-FBA & NOT SUSCE the mile occ., 3 4.5 ×16N 700 = -700 ?? 114,275.91 May 1.14 × 107 M/2 or N/49 1700 N = +1200 N2 decurates 200 mg2 < Fx =0 Carestant = 2,000 N Carestant = 1000 N mass = 76 kg EFJ=0 Frety assume fret= 0, calc. sensoms in Ropes SFx = max (2000) (# 200 m/s2) 7,055 (-176x -Tq 60575+Tg 60 310 =0 Tzos -W+TISON75°+Tasinic Win 7 13632 N TIX2 1050=4 $(05(75) = \frac{-1.7}{-1.4} \qquad (76 \text{ kg}) (9.8 \text{ Mz.}) \frac{\text{Ti}}{\text{T2}} = \frac{\text{cos} 250}{\text{cos} 250}$ = 744.8 N T = 8.805T2 Ti = 3805 K 198.519 T2= 193.514 N 796.324N \$ 3.805725075°+TSIN(0°=749.81)

Water

max force Wo naing = ? (a) Fa (M = 0.5, 0.3) mag of accentation se =? Force = Ms.M.g FN=mg = (120/g) (1.8/g) - (0.5) (120 Ng) (2,8 m/52) 588 N is maxie without moving FK = (NK)(N) = (.3)(1176) F = Fsmax -FX 235.2 (58)-(3528) F= ma (235.2 (a35.2 µ) F/m=a (120 Kg) Fret = gosino - uv good cos o Ma = (4.8 2) sin(25) - (0.1) (3.8) (05(25) a = (4.14165)-(0-8881) Q= 3,25 m/s2



ALX.

+o=/2 CPAV2 orca = 0.75m2 asymsty = 1.225 kg m-3 = 0.75 Mage in Newtone ? - 564.78 N Bams warns acceleration Due to gravitos at Negture dut to piuto a) 4.5 × 10 12 m aport (mass 1,4 x1622) xq $a = 6.67 \times 10^{-11} \times 862 \times 10^{25}$ $= (2.5 \times 10^{12})^2$ 2.5 × 1012 m aport AND compose a = 9.2 X10-10 msz a = Gm G=6.67 × 10-11/N·m²/ug2 a = 6.67 ×10-11 ×1.4-10-22 The acceleration a=4.6×10-14 m/52 Due to gravity by fresence bue to gravity by fresence of wanus is greater than that of plutd