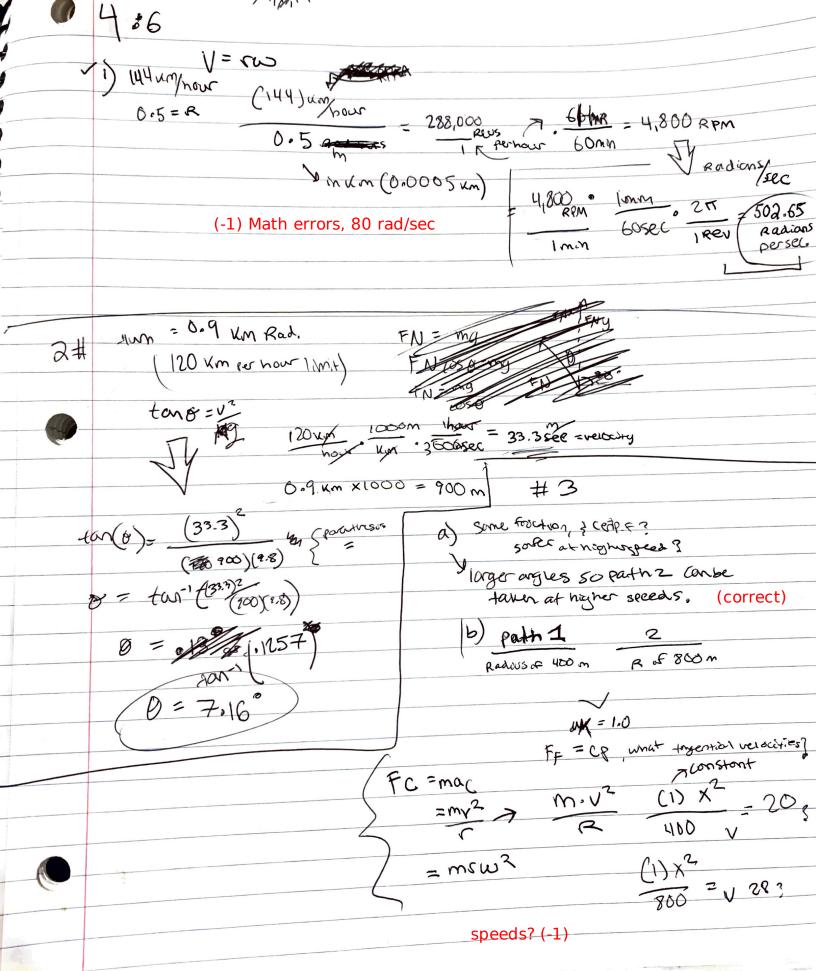


max force Wo navny = ? (a) Fa ( MM = 0.5, 0.3) mag of accentation se =? max = us.M.g FN=mg = (15000) (4.8kg) - (0.5) (120mg) (2,8 m/52) 588 N maxie without moving FN = (NK)(N) = (.3)(1176) F = Fsmax - Fx 235.2 (58) - (3528) F= ma (035 ? F/m=a (120 kg D(0 = (9.8 2) son (25) - (0.1) (3.8) (05(25) (-1) Where is the problem solving for a = (4.14165)-(0-8891) Young's modulus? Q= 3,25 M/52



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 gravity at Negture dut to piuto b) a= 67m a) 4.5 x 10 12 m aport (mass 1,4 x1022) 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 Q 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 (+2) Bonus