Ison Principles of Physics (10th edition) 141 Son Discussion of USI A EDI molety Chapter 6" Force and motion 11 lamps is Problems 19, 49, 21, 25, 29, 42, 53 Maried of Linds Roberts and Assessed Problem 9: A 13.5 kg. block is pushed alonge a horizontal floor by a force of F of magnitude ISN at an angle 0-40° with the horizontal (Fig 6-17) The coefficient of kinetic friction between the block and the floor is 0.25 calculate the magnitudes of a) the frictional force on the block from the floor and b) the block's accelerating. sol , F=15 N , 0=40° , m = 3.5 kg Mx 30,25 FN = mg + Fsinyo = (3,5 x9.8) + 155,440 ~ UUN FLE MUEN -0,25 X 44 Fre proposition of the second and and the SF 15 ma levels and lots entilled From 40 - Fina Man 15 cos 40-11- 3.50 0,5 = 35a = ) a=0. 43m 152

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(SDI - (million Hel) seeple on intermit Problem 19: A 12N horizontal force F pushes a block weighing 5 N against a vertical wall (Fig 6-25)! The coefficient of Static friction between the wall and the block is 0.60, and the coefficient of kinetic friction is o.u. Assume the block is not mooning intially as will the block move?

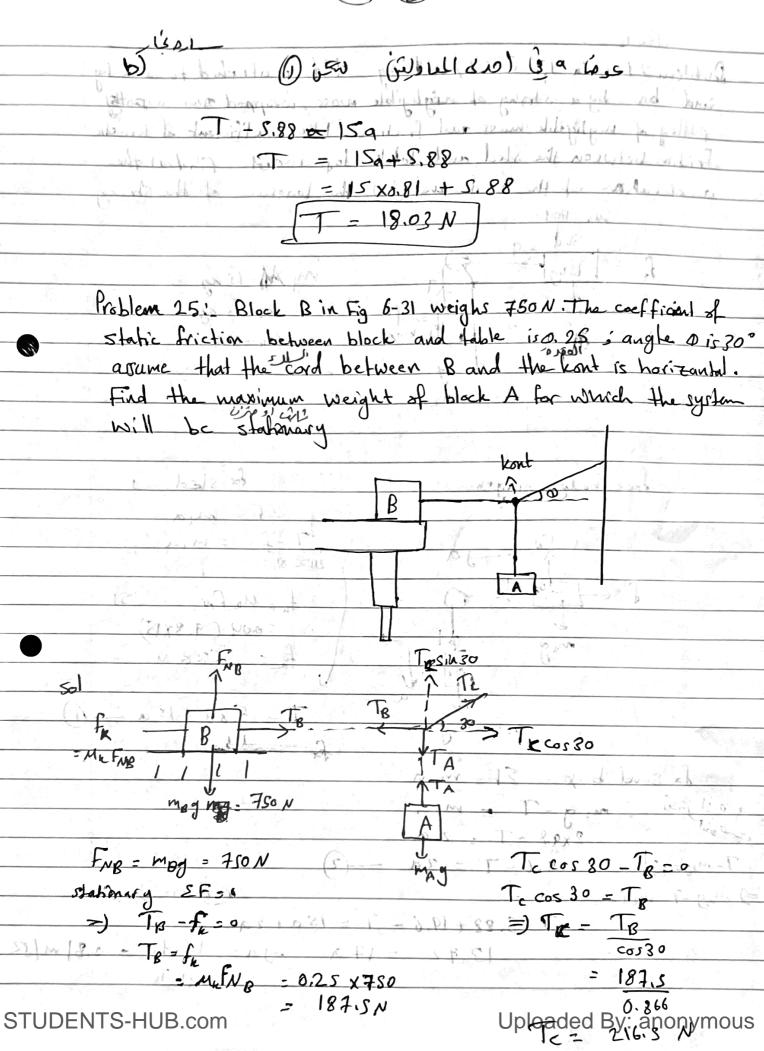
b) In unit-vector hodation, what is the force on the block from the significant of it is a set 56 mi Free abody diagram langibil will =) The block doesn't more النه حد إحدان على التالى قور الى جد تاوي (ط F - - PNI+ 5 NS - 11 CH 15-5N

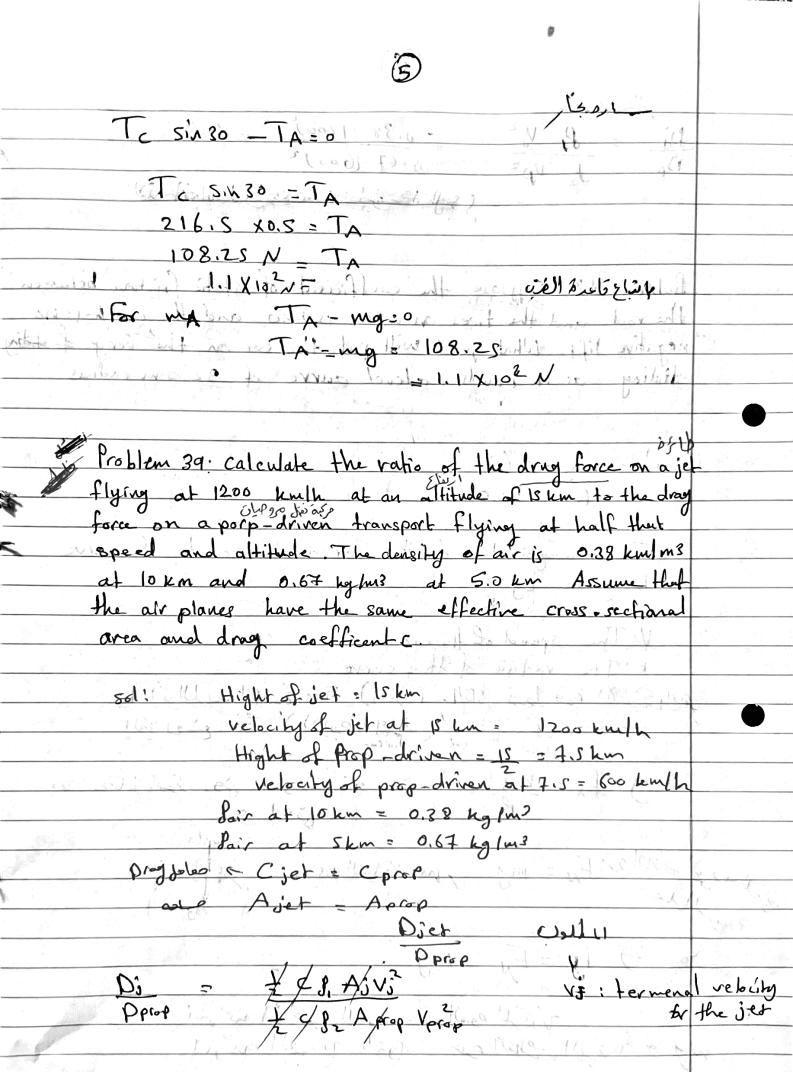
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Problem 21:- In Tig 6-27, a 15 hy sled is attached to a 2 hy Sand box by a string of negligible neass, wrapped over a party pulley of negligible mass and friction. The coefficient of kinetic Friction between the sted and table top is out find as the acceleration of the sted and (but the tension of the string) T-5.88 + 19.6 - T = 15a+29 13.72 - 0.81 m/s 48131 STUDENTS-HUB.com Uploaded By: anonymous







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$D_{A}$ $V_{A}^{2}$	67 1600)2
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Problem 42: Suppose the	coefficient of static friction between a car is 0.60 and the car has no sill put the car on the verge of thing level curve of 32.0 m radius
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sliding as it pounds a	evel curve of 92 am radius
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