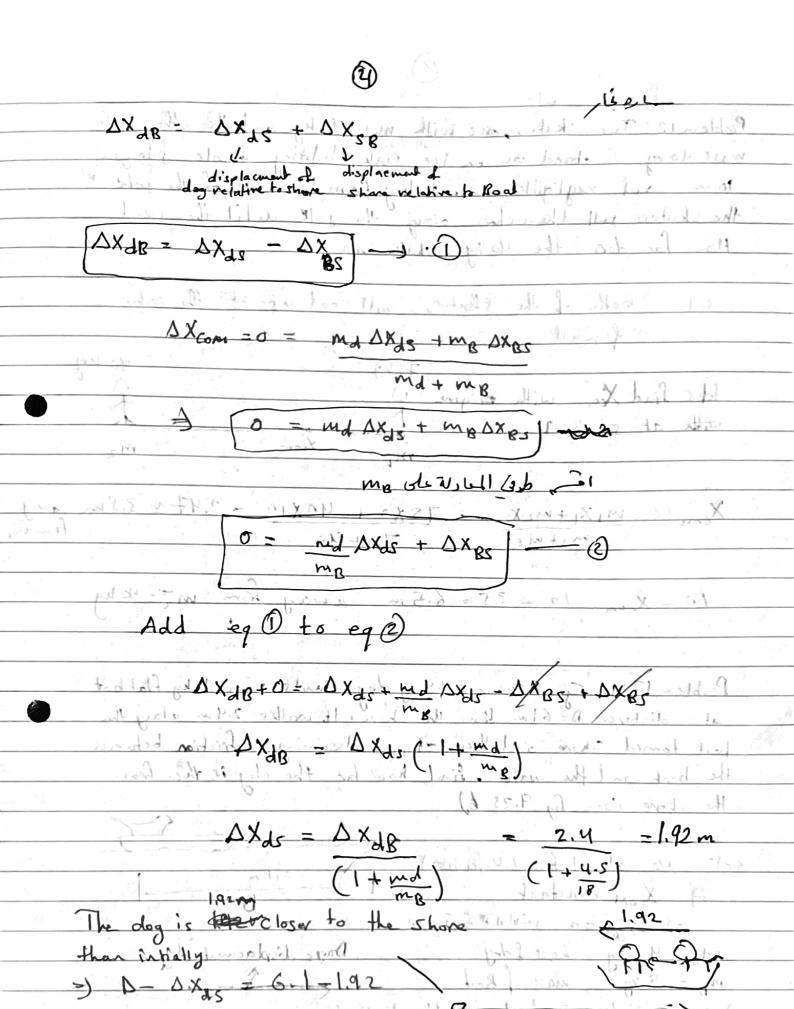
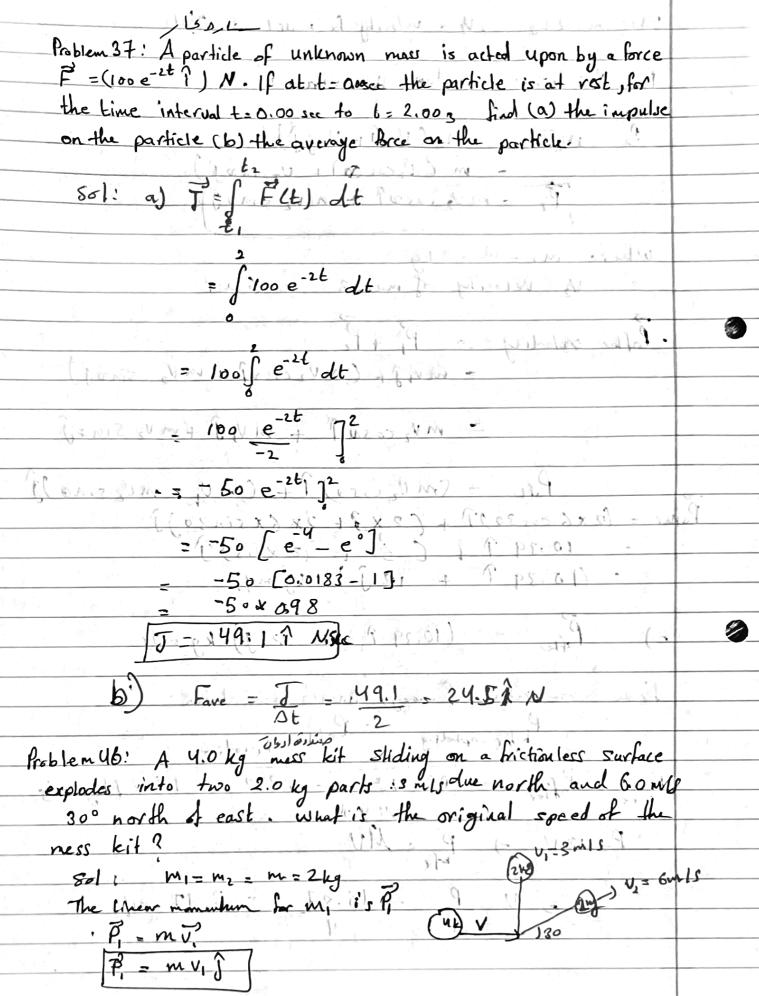


Problem 12: Two skaters, one with mass 75 kg and the other with mass 40 kg stand on an ice fink holding a pole of length 10 m and negligible mass. Starting from the ends of the pole of the skaters pull themselves along the polk until they meet How far does the 40 kg skaker move? sol: both of the skeeters will end up at the conter M1X1+M2X2 = 75X0 + 40X10 = 3.47 1 3.5m every 1 m 1+ m 2 x 1 754 40 -10 - Xcom = 10 - 3.5 = 6.5 m away from m= 40 kg Problem 17: In Fig. 9.359, 44.5 by day stands on an 18kg flatbook at distance D= 6.1 m from the shore, It walks 2.4 m along the book toward shore and then stope: Assuming no friction between the boat and the water . find how far the dog is then from the shore (see fig 9.25 b) Sol: No external fora (. friction), -) Xcom constant عامل عاد الكريه للأول الكريه للأول عام X ما كالم المرابع الكرية الكرية الكرية المرابع عام X ما كالمرابع المرابع المرا MJ= 4.5 kg mass of dog Dogre Lisplacment dd mp = 18 kg mass of Boat DXde : displacment of dog relative to Boot STUDENTS-HUB.com BLIPION DELLA BYLLAD PROMOUS



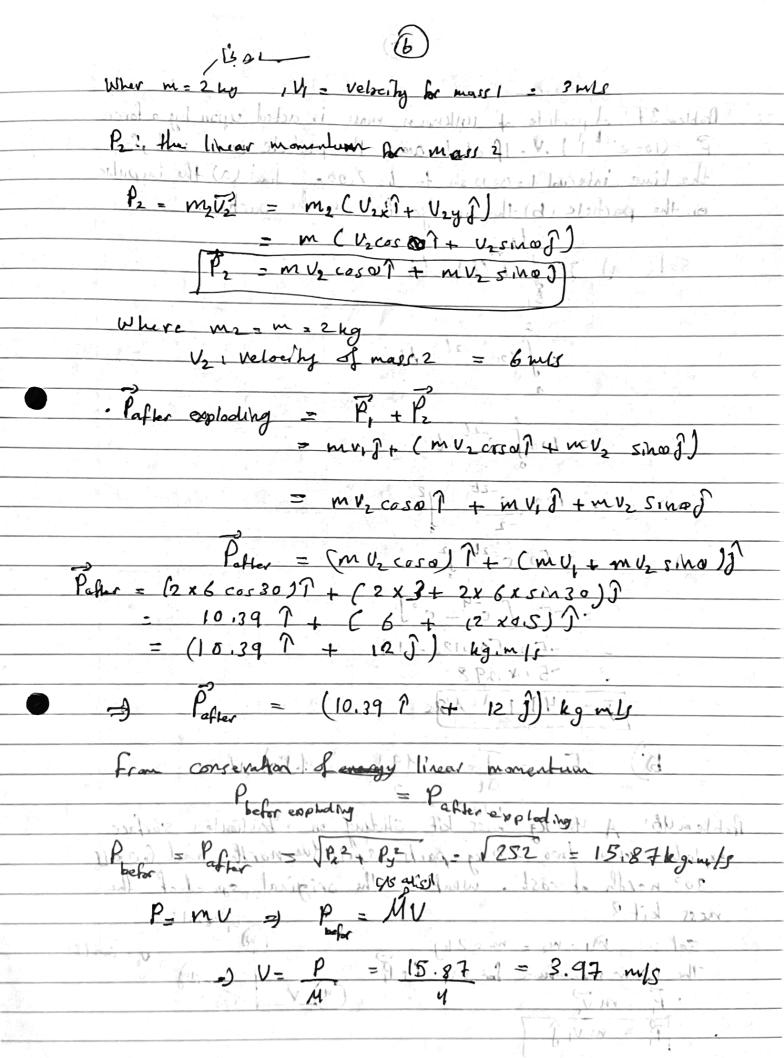
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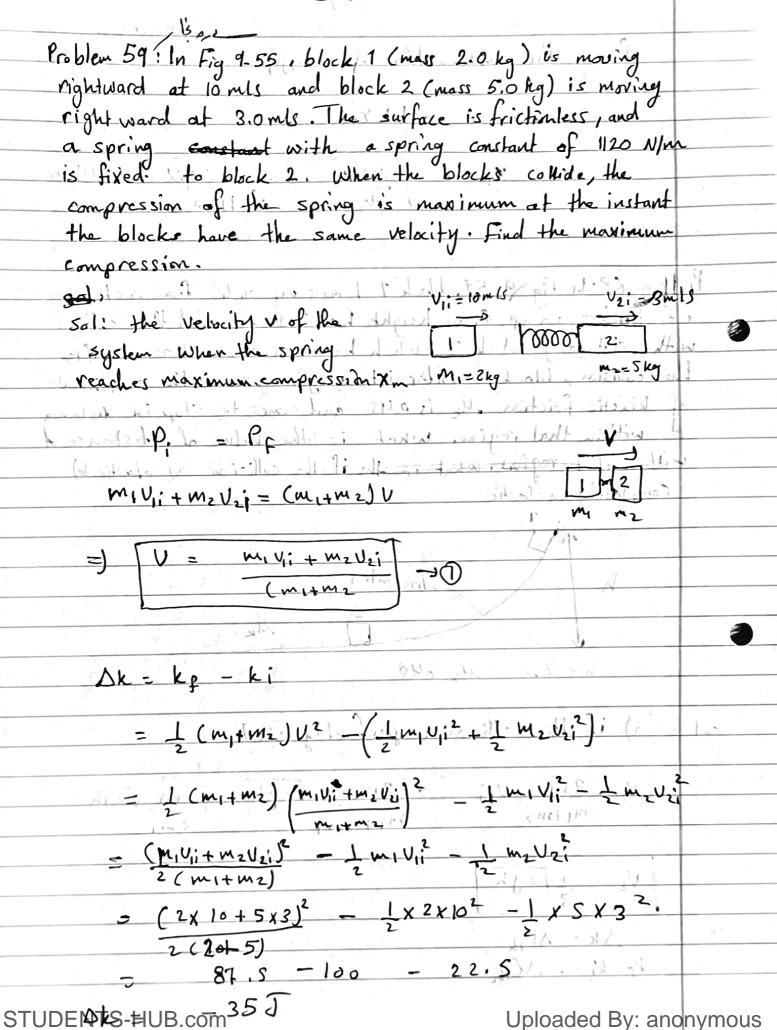
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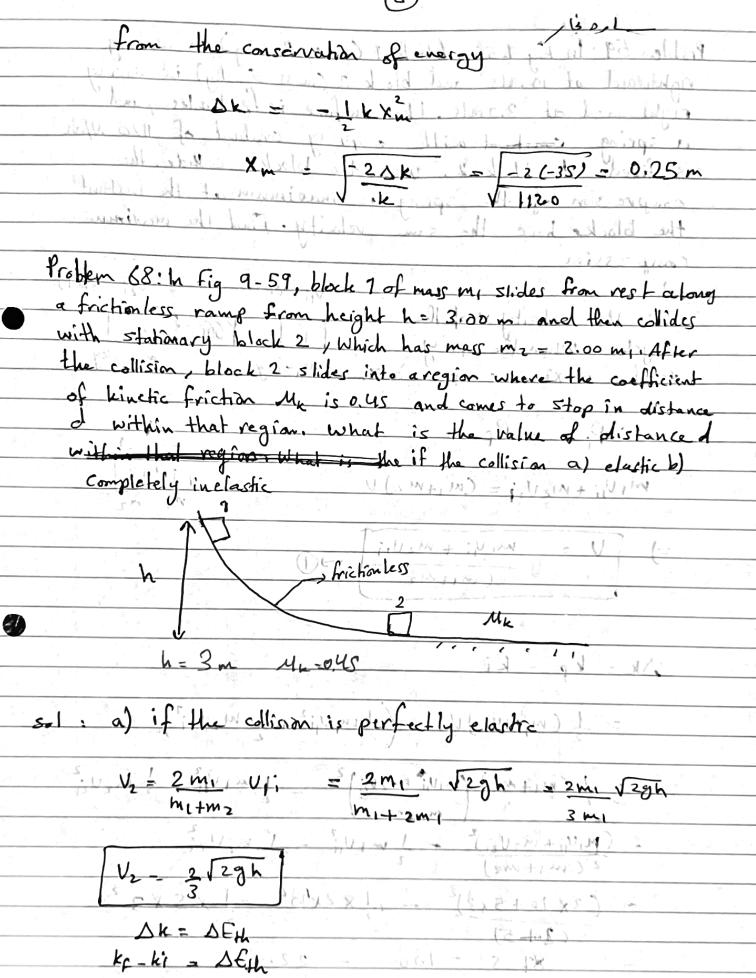


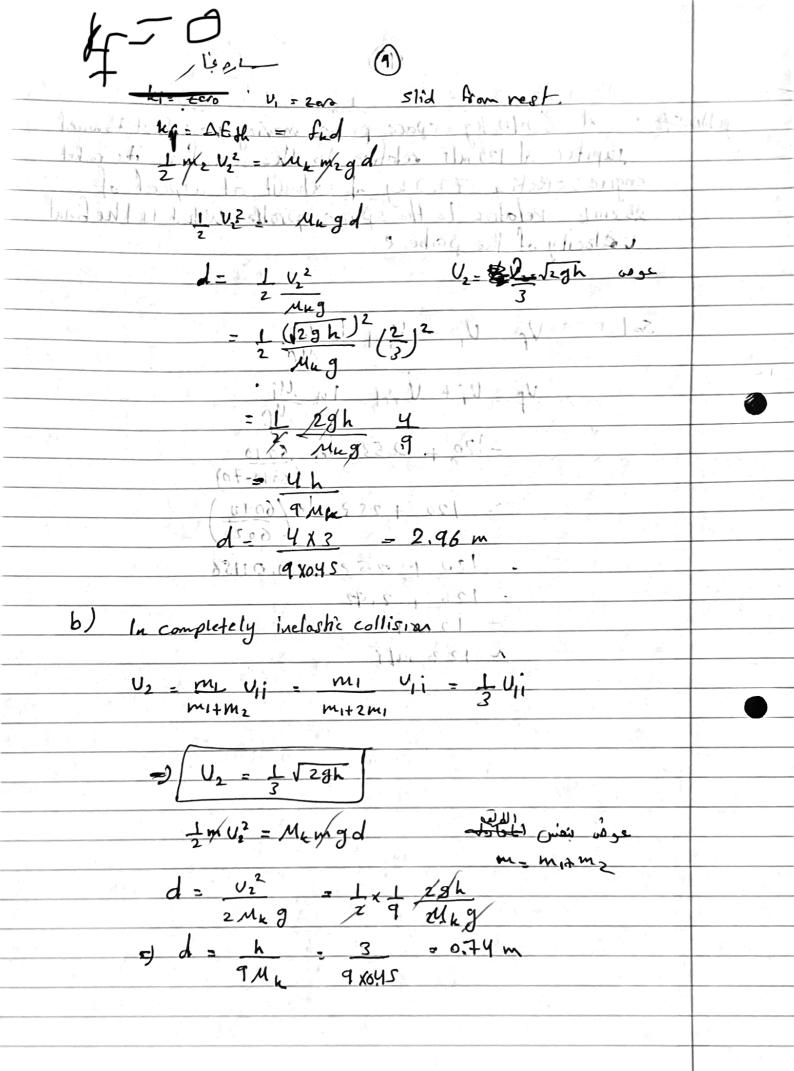
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