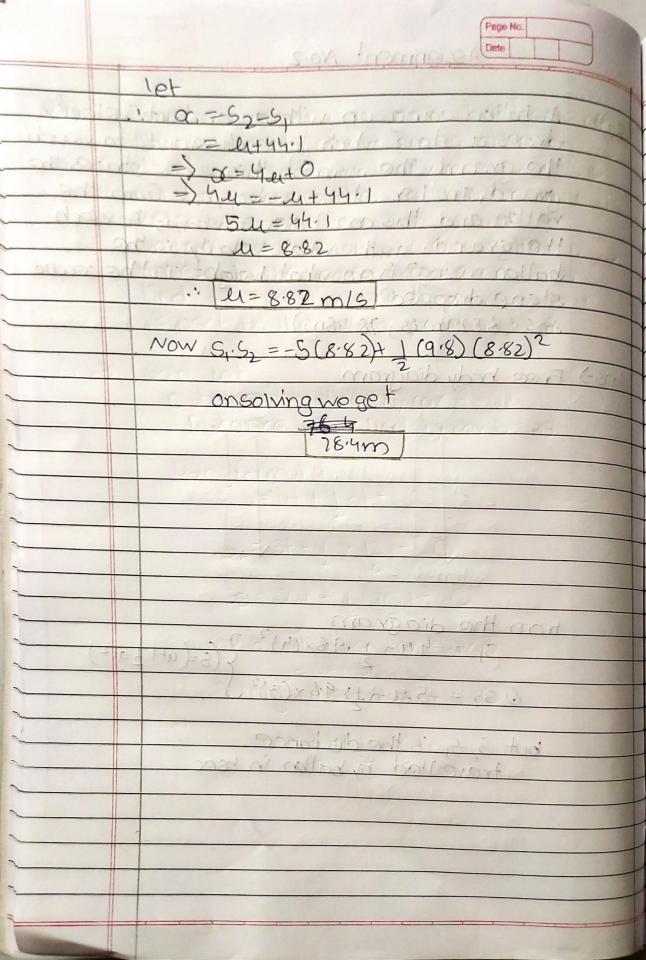
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Page No. Assignment No.2 A ballon going up with a constant velocity (32) droiss a stone which takes 4 seconds to reach the grand. The moment this store strikes the around, another stove is dropped from the ballon and this one takes 5 soronds to reach the grand with what velocity is the ballon vising? From what height is the second stone dropped? Ans: (8.829m (5, 78.48m) (S& &) (& P) 1 HS & & &) Ans > Free body diagram from the diagram $S_1 = -4u + 1.98 \times (4)^2$ $S_1 = -4u + 1.98 \times (4)^2$ $S_2 = -4u + 1.98 \times (4)^2$ 652 = -54+1×98×(5)2 but 525, is the distance travelled by ballon in usec



Two cars moving in some direction are 180 m apart, car A being ahed or cars. At the instance velocity of A is 3m/s o constant acceleration of 12m132 while the velocity of car bis 30mis and its uniform vidardation is 0 6m/s2. How many times do the carb cross each other? Find when and where they cross, with respect to the given position of A Ans Soln: Let Distance travelled by car A=SA & Distance travelled by car B = S13 Usingformula. S=u++1a+2 SA= 3++ 1 x 12+2-0 SB = 30++1x = 12-2 Car B will over car Awron Sig=SATISO
Potting the values in 080 SA=3+1 x3+2

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