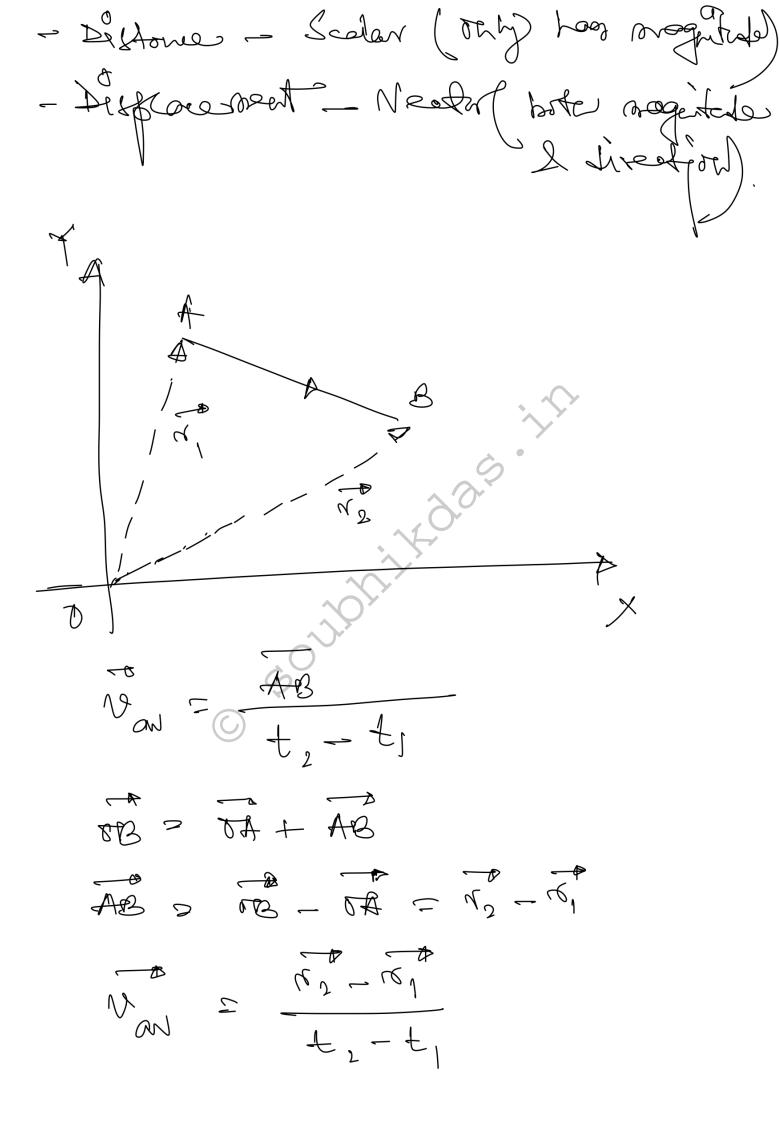
Rest & Motion

KINEMATICS

Average Speed = 121 Jones Travelles cerit S2-S1 b2-+1 Stope of JC 2 V. Jt. that porticular troport? A Axa Ender to cure 87 grobb.



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III Motion with confort Aceleration Nelouty at time too is w relivity at tens tot ? I. I. Man Acceleration, Q 2 JU! W= adt V = (a. Ita [v] = a [t] t M = th. h IN = (N+ort). It

= dn = w.d+ ad. J+ N (It + a (t. It $= N + A \left(\frac{1}{2}\right)$ = MA atio So, M= N+ 1 012 topy - l rook 10 = O(N+04) L 102 = N2+ 2am * Motion of a Stronght line

Displacement at the Second =

St 2 W+ a (2t-1) [Cof] Seons

In Freely Falling Body. 2 - P. 2 of s2 ft/s2 My Nertically Downwood (g -> +Ve) J= U+ gf S= u++-1242 9= N+295 m vertically spevared (g-4-Nos) J= N-9f S= nto 12 gfl 1 70 u - 298 M Hoffer in a place Break of into tero independent problems of straight was notion, one along the N- arms out the other along Ar-Ani+ayj

M of + With aft last x a = 1 cm/ch Confocient Acoleration veltafegt 2. Desploernent Mn = n 6000 jan =0 My) 2 M Sind; ay = 9

- Hon 2001 Motion M = nat+ = ante As indicated, the no component of the solocity remains comfort to parfile notres. - Newfied Motion Nyz ny = gtos y = Nyt - 1 9t2 Jy = Ny - 297 - Time of flight - for OB Time toller OB= Nnt+ 1ant utcon?

At point B, Ny =0 $vy = vy - \frac{1}{2} \text{ oyt}$ 0 = uf fim - f gt > + (u Sint - 1 gt) r t= 2 n lind OB = (NCORD) U CORD. 201 Cent W Sin 28

Magnmun Deght Roahod Vy= Ny- gt = N God - gt hopm Height, My 20 may " Height, H= Myt - = anyt = using. (using) - 1 glacing = U ling

Vin chorge of from - A from coe be chosen recording)
to a given from of reference.

(aleoting to the conscious of the postern) As $\frac{1}{\sqrt{2}}$ $\frac{1}{\sqrt{2}}$ - The printion of the form S' (trigen)
with respect to S 11 80' = 851,5 boriet in restar ob (7 bloss) = 26 = 26?

20, TP 2 18 + 8 P ~P, S = ~S, S + ~P, S) So, for Velocity)d (7p,1) = d (7s1,s) + d (7p,s1) VS', S - Nelverty of the from L' over respect to C. p de hoorstan Love meaning) in 65th Hes Jonner. A Tre assumptions on sof correct of the valority of one formed with the large that THE Conforable to 3×102 m/s. of rather cert tron Braton Bi

20 km/5 = 60 + 20 = 20 km/s. $\frac{1}{\alpha} = \frac{1}{\alpha} = \frac{1}$

- It a senform relocately. Q &, 5 = 8 APS 2 APS i.e. if two forms and rooming)
with respect to each the with
leaston relocity, acceleration of
a body is some in both too