

KINEMATICS

Distance $\Rightarrow l = r\theta$

radians



Displacement $\Rightarrow 2r \sin(\frac{\theta}{2})$

② Avg. Velocity & Avg. Speed :

Avg. Velocity = $\frac{\text{Total displacement}}{\text{Total time}}$

Avg. Speed = $\frac{\text{Total distance}}{\text{Total time}}$

Notes: Displacement $\leq$ distance

Avg. Velocity $\leq$ Avg. Speed.

* Important Case :-

1) If body covers 'n' equal distances with velocities $v_1, v_2, v_3, \dots, v_n$; then avg. speed:

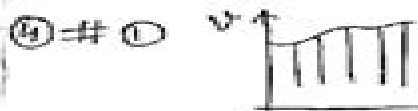
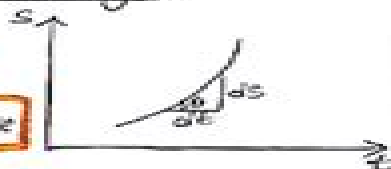
$$V_{\text{avg.}} = \frac{n}{\frac{1}{v_1} + \frac{1}{v_2} + \dots + \frac{1}{v_n}}$$

2) If $n=2$, Avg. speed will be -

$$V_{\text{avg.}} = \frac{2v_1v_2}{v_1 + v_2}$$

③ Instantaneous Velocity :

$v = \frac{ds}{dt} = \tan \theta$
= slope of s-t curve



$v = \frac{ds}{dt}$
 $ds = v dt$

$\int_{s_1}^{s_2} ds = \int_{t_1}^{t_2} v dt$
 $[s]_{s_1}^{s_2} = \int_{t_1}^{t_2} v dt$

displacement $\leftarrow [s_2 - s_1] = \int_{t_1}^{t_2} v dt = \text{Area Under Curve}$

②



$a = \frac{dv}{dt}$

$\int_{v_1}^{v_2} dv = \int_{t_1}^{t_2} a dt \Rightarrow [v]_{v_1}^{v_2} = \int_{t_1}^{t_2} a dt$

$dv = a dt$

change in velocity $\leftarrow [v_2 - v_1] = \int_{t_1}^{t_2} a dt = \text{Area under Curve}$

⑤ Equations of Motion Always valid :

① $v = \frac{ds}{dt}$

③ $s_2 - s_1 = \int_{t_1}^{t_2} v dt$

② $a = \frac{dv}{dt}$

④ $v_2 - v_1 = \int_{t_1}^{t_2} a dt$

⑤ $a = v \frac{dv}{ds}$

⑥ Equation of Motion for Uniform Acceleration

For constant acceleration,

① $v = u + at$

$u \rightarrow$ initial velocity
 $v \rightarrow$ final velocity

② $s = ut + \frac{1}{2}at^2$

$a \rightarrow$ acceleration [constant]

③ $v^2 - u^2 = 2as$

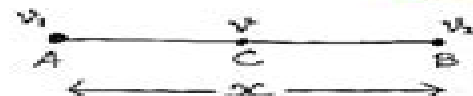
$t \rightarrow$ time period of acceleration.
 $s \rightarrow$ displacement.

⑦ Important Results for Uniform Acceleration:

$a = \text{constant}$.

1) A particle moving with uniform acceleration from A to B along a straight line has velocities v_1 and v_2 at A and B, respectively. If C is the mid point b/w A and B, then -

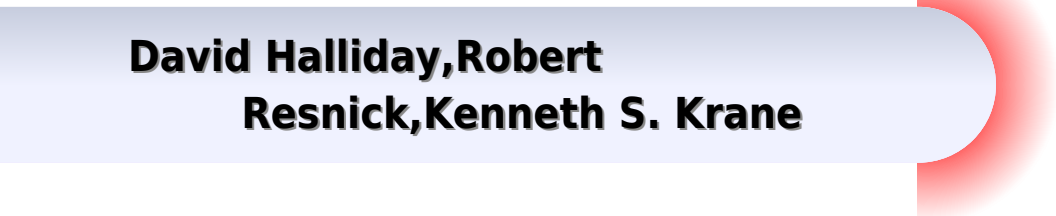
$$v = \sqrt{\frac{v_1^2 + v_2^2}{2}}$$



Dist $\rightarrow$ straight line
Ind. $\rightarrow$ not straight line

Answer Sheet For Physics Volume Halliday

**David Halliday, Robert
Resnick, Kenneth S. Krane**



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