

Sample PDF

This is a simple PDF file. Fun fun fun.

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Kinematics

2011-12

DATE
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In Kinematics, we study the relation b/w parameters of motion not the cause of motion.

PARAMETERS

- | | |
|---------------------|-----------------|
| 1- Position | 6- Avg. speed |
| 2- Displacement | 7- Inst. speed |
| 3- Distance | 8- Acceleration |
| 4- Average velocity | |
| 5- Inst. velocity | |

POSITION & DISPLACEMENT (vector)

- Change in position vector is called displacement. It is directed along initial to final position.
- Its magnitude is min. dist. b/w initial & final position
- It is vector quantity.

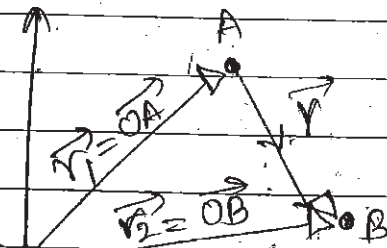
किसी Particle

को exist करने

के लिए

Cartesian plane

जरूरी है



Any particle requires Cartesian plane for its existence

$$\text{change} = \Delta = \text{final} - \text{initial}$$

$$\Delta \vec{r} = \vec{OB} - \vec{OA}$$

$$\vec{D} = \vec{AB} \quad (\because \vec{AB} = \vec{OB} - \vec{OA})$$

यह जरूरी नहीं होता है कि displacement वाली लाइन ही particle का path है

DISTANCE (scalar)

It's not necessary that displacement is only the path followed by particle

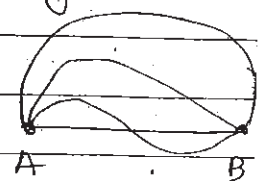
Length of path travelled is known as distance.

Distance b/w two points A & B can have many values. any value नहीं हो सकती है / Booz

$$\text{Distance} \geq |\text{Displacement}|$$

disp. से कम नहीं हो सकती है

distance won't be less than displacement



Many paths can be travelled