

# JEE MAIN 2022



## कॉन्सेप्ट्स

## PHYSICS

CONCEPTS  
VISION.....  
**THE SHOT**

FOR ADMISSION ☎ 08047484847 📞 8233790663





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# Kinematics

## RECTILINEAR MOTION

- Instantaneous velocity is the slope of position time curve.

$$v = \lim_{\Delta t \rightarrow 0} \frac{\Delta x}{\Delta t} = \frac{dx}{dt}$$

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

Graphs  
functions ✓  
 $\frac{dx}{dt}$

- Slope of velocity-time curve = instantaneous acceleration

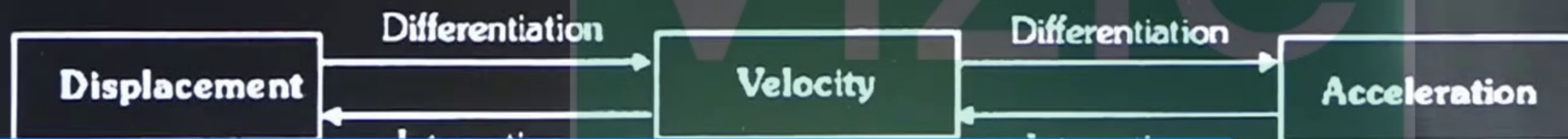
$$a = \frac{dv}{dt}$$

- v-t curve area gives displacement.

$$[\Delta x = \int v dt]$$

- a-t curve area gives change in velocity.

$$[\Delta v = \int a dt]$$







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