

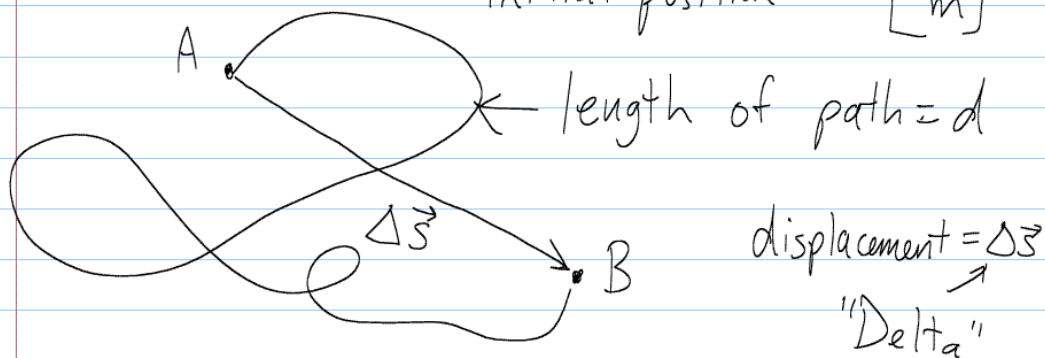
PHY131H1F Centre-screen notes
Wednesday Sep. 12, 2012

Hello class!

Definitions.

Distance : how far you traveled (scalar)

Displacement : final position - initial position (vector)
[m]
[m]



$$d \geq |\Delta \vec{s}|$$

Average Speed = $\frac{\text{distance}}{\text{time}} = \frac{d}{\Delta t}$ (scalar)
 \vec{v}_{avg} \vec{v} [m/s]

Average velocity = $\frac{\text{displacement}}{\text{time}} = \frac{\Delta \vec{s}}{\Delta t}$ (vector)
 \vec{v}_{avg} [m/s]

Instantaneous velocity: ("aka. velocity")

$$\vec{v} = \lim_{\Delta t \rightarrow 0} \left(\frac{\Delta \vec{s}}{\Delta t} \right)$$

Acceleration can be found as slope of velocity vs. time graph.

Angry bird.



