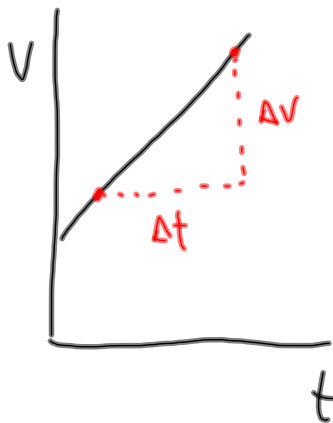


Acceleration

Consider an object with constant acceleration:



$$\text{slope} = \frac{\Delta v}{\Delta t}$$

We know that slope = acceleration
(v-t)

$$\therefore \vec{a} = \frac{\Delta \vec{v}}{\Delta t}$$

where \vec{a} is the acceleration (m/s/s or m/s^2)

$\Delta \vec{v}$ is the change in velocity (m/s)
($\Delta \vec{v} = \vec{v}_f - \vec{v}_i$)

Δt is the time for the
velocity change to occur (s)

$$\vec{a} = \frac{\vec{v}_f - \vec{v}_i}{\Delta t}$$

* Should be able
to rearrange for v_f , v_i or Δt

TO DO:

- ① Finish the Acceleration Problem Sheet.
- ② Assignment (due Thurs)
 - Acceleration: Exercise
 - Sketching Velocity-Time Graphs.
- ③ Quiz (Wed) - on acceleration equation.