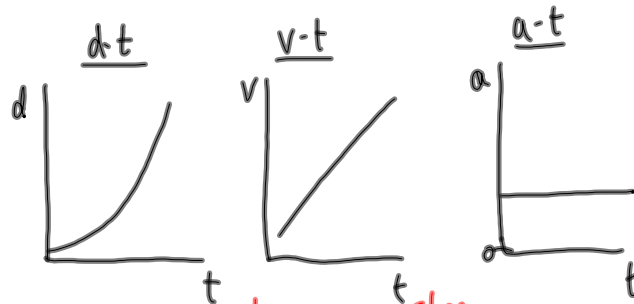


Acceleration

How do you know an object has acceleration by looking at a $d-t$? $v-t$? $a-t$? (constant)



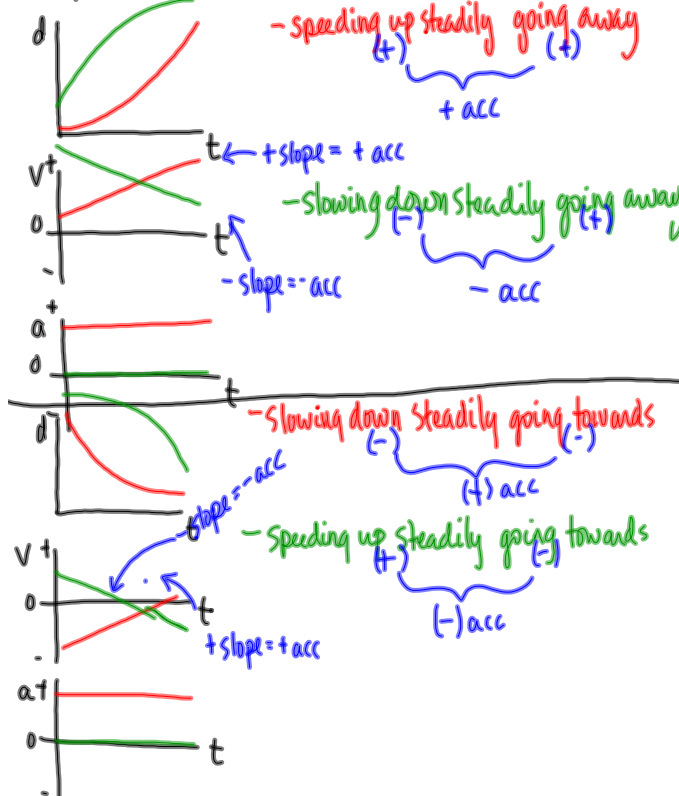
$$v = \frac{\Delta d}{\Delta t}$$

slope $d-t$

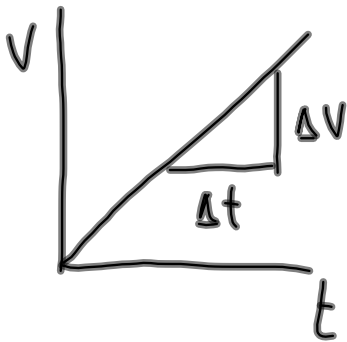
$$a = \frac{\Delta v}{\Delta t}$$

slope $v-t$

Graphs ($d-t, v-t, a-t$)



Acceleration Equation



acceleration = slope

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

rearrange
if needed

$$a = \frac{v_f - v_i}{\Delta t}$$