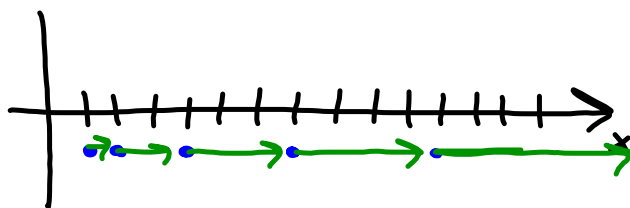
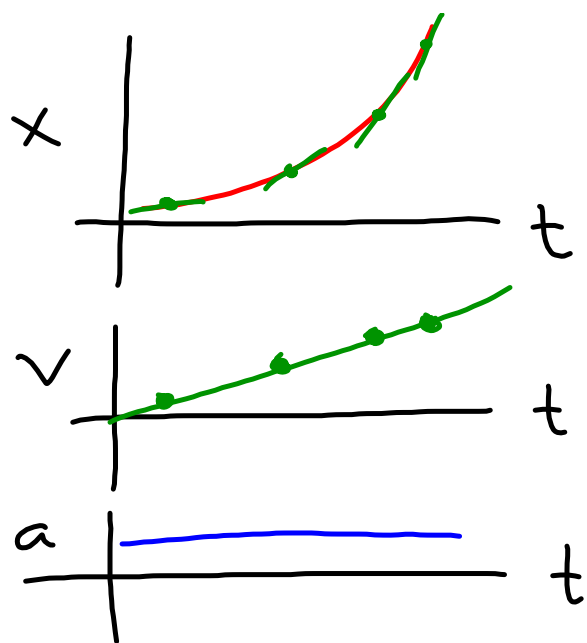
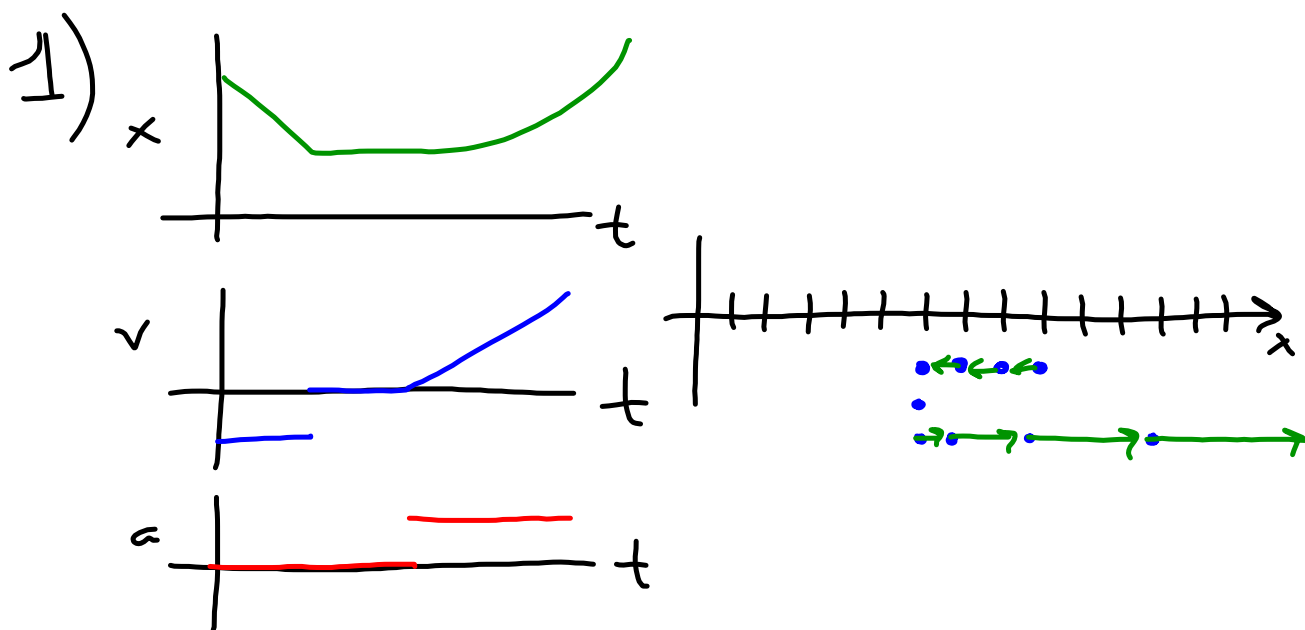


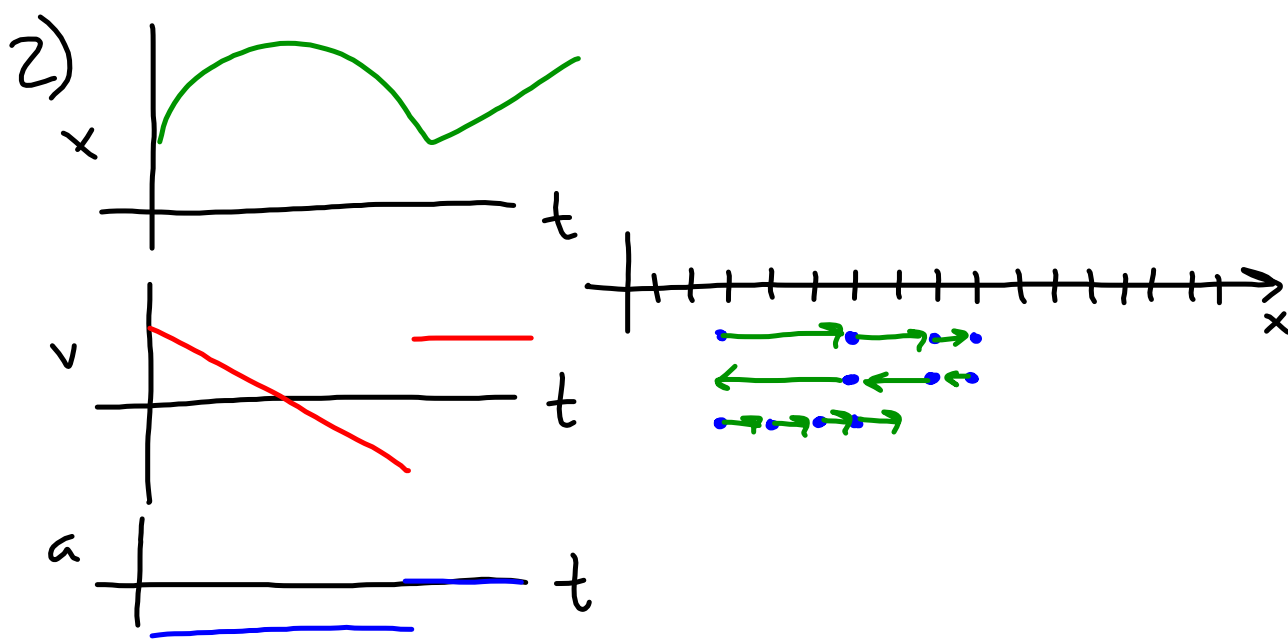
$$\text{slope} = \frac{v_f - v_i}{t_f - t_i}$$

is defined as $\bar{a} \equiv \frac{\Delta \bar{v}}{\Delta t} = \frac{\bar{v}_f - \bar{v}_i}{t_f - t_i}$

acceleration $\equiv \frac{\text{change in velocity}}{\text{change in time}}$







$$\bar{v}_f = \bar{v}_i + \bar{a} t$$

$$\bar{v}_f^2 = \bar{v}_i^2 + 2\bar{a} \Delta x$$

$$\Delta \bar{x} = \bar{v}_i t + \frac{1}{2} \bar{a} t^2$$

\bar{a} → acceleration

\bar{v}_i → initial velocity

\bar{v}_f → final velocity

$\Delta \bar{x}$ → change in position
(displacement)

t → time

pay attention
to positive
or negative!