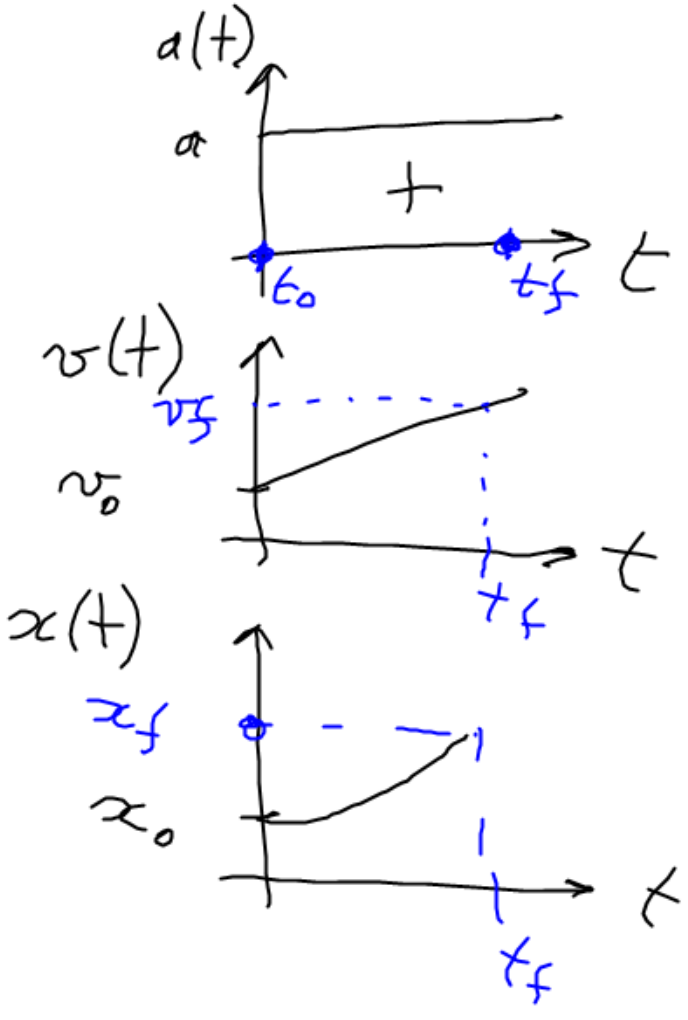


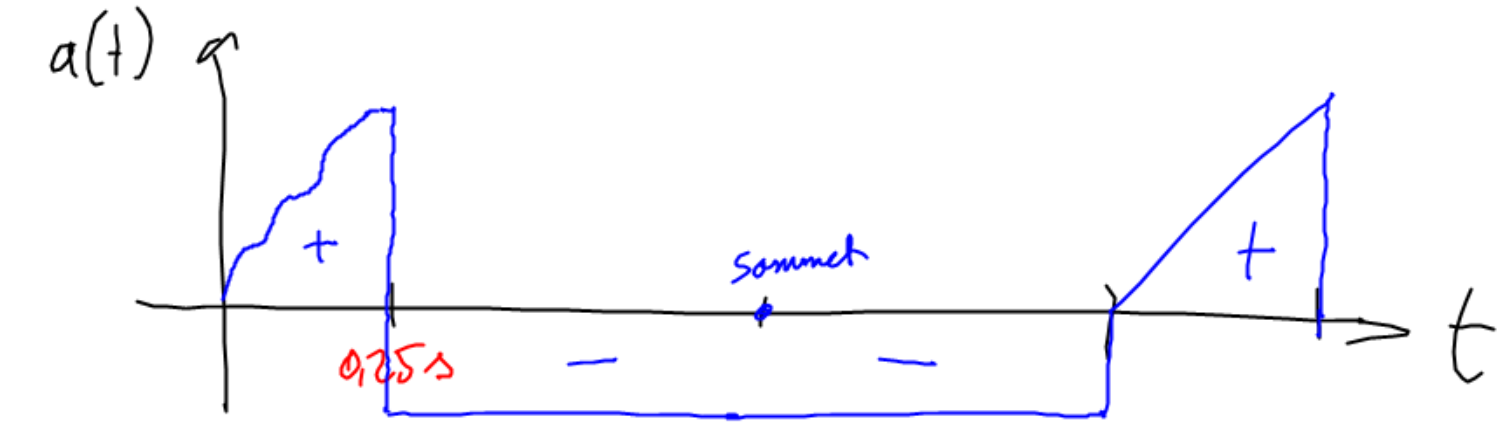

$$a(t) = a$$

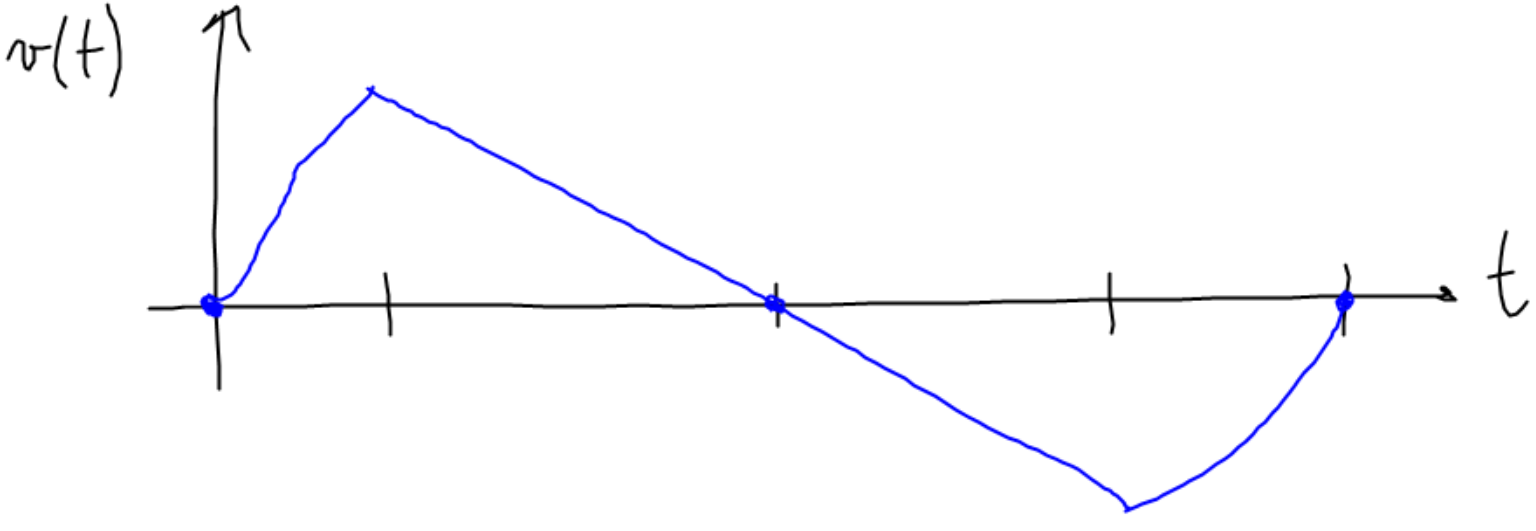
$$v(t) = a \cdot t + v_0$$

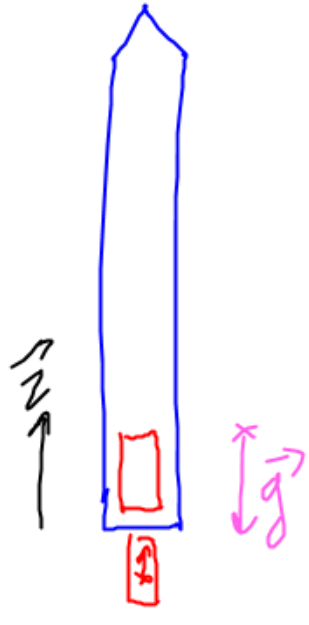
$$a_{med} = \frac{\Delta v}{\Delta t}$$

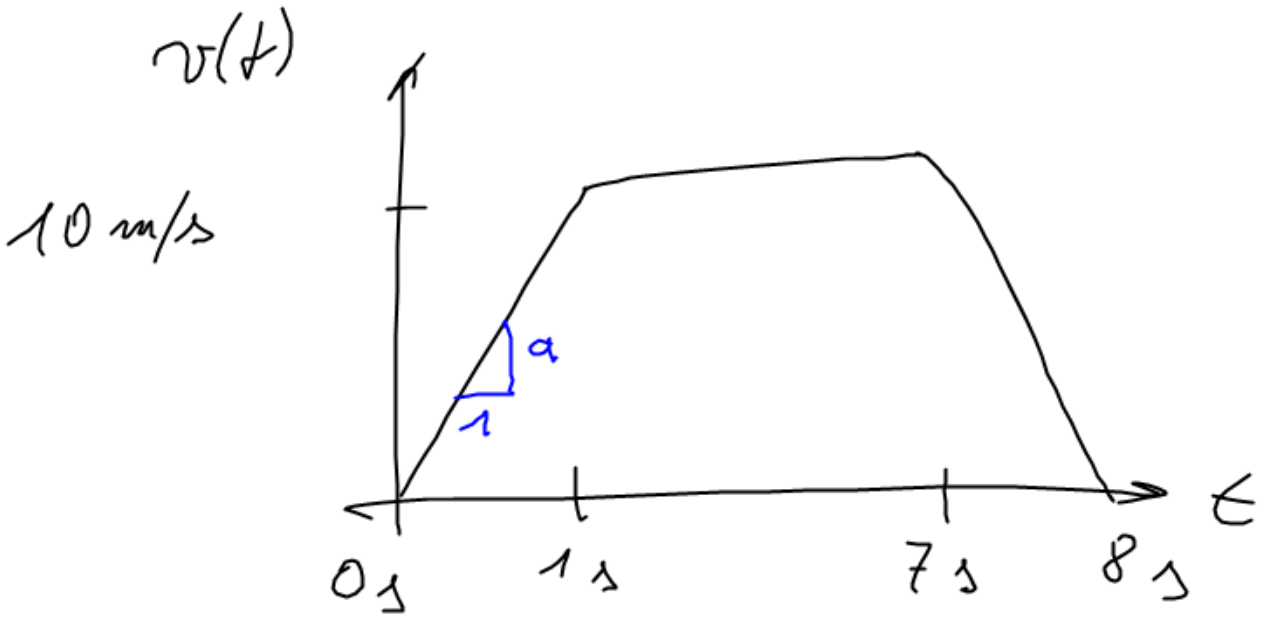
$$x(t) = \frac{1}{2} a t^2 + v_0 \cdot t + x_0$$

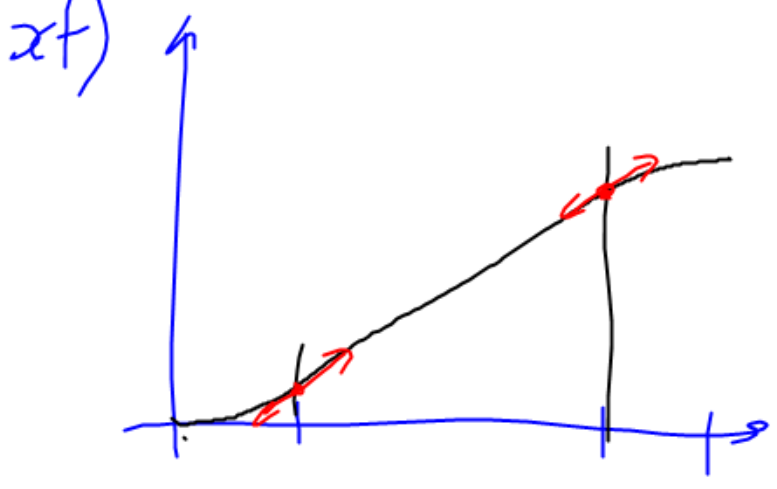
$$v_{med} = \frac{\Delta x}{\Delta t}$$


a(t)
+
0,25 s
sommet
−
−
+
t


v(t)
t


z
g




$$a = \frac{\Delta v}{\Delta t} \qquad a = \frac{y_B - y_A}{x_B - x_A}$$

$$a(t) = a \quad [m/s^2]$$

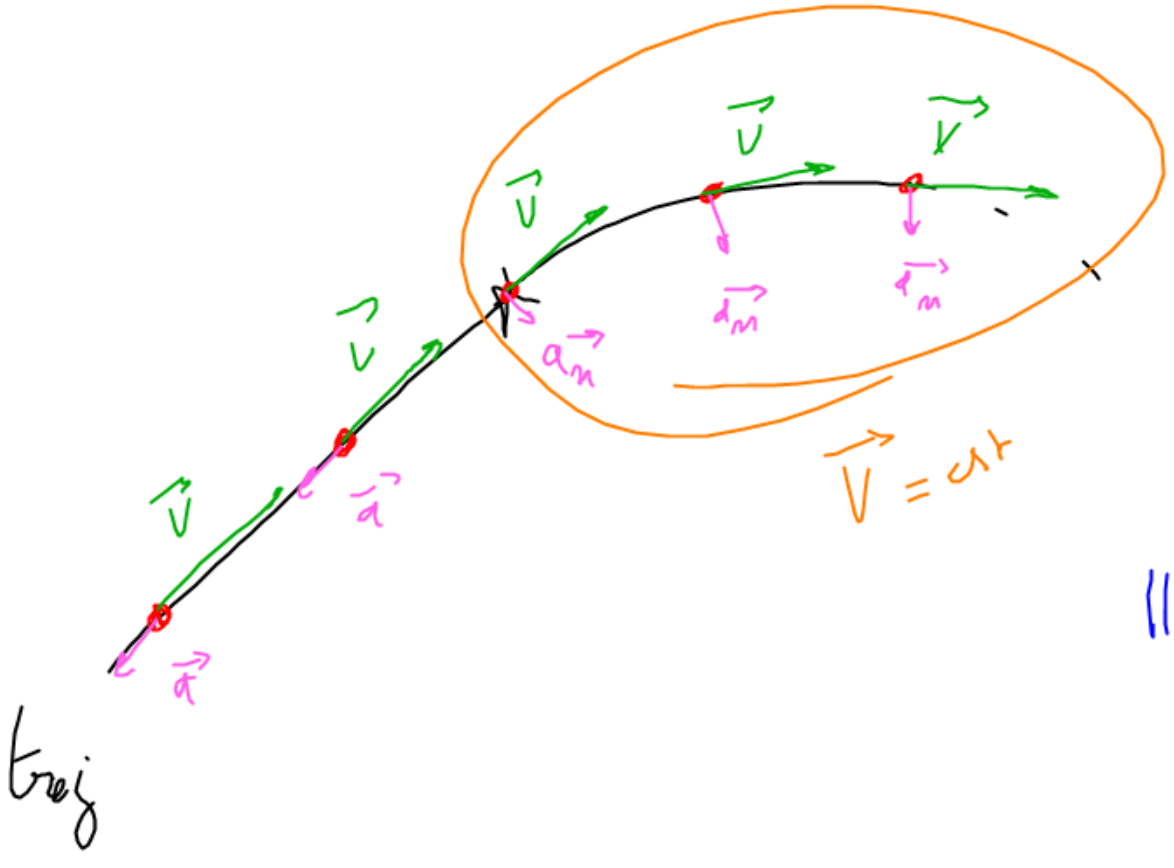
$$v(t) = at + v_0 \quad [m/s]$$

$$x(t) = \frac{1}{2} a t^2 + v_0 \cdot t + x_0 \quad [m]$$

$$\dot{\omega}(t) = \dot{\omega} \quad [rad/s^2]$$

$$\omega(t) = \dot{\omega} \cdot t + \omega_0 \quad [rad/s]$$

$$\Theta(t) = \frac{1}{2} \dot{\omega} t^2 + \omega_0 \cdot t + \Theta_0 \quad [rad]$$



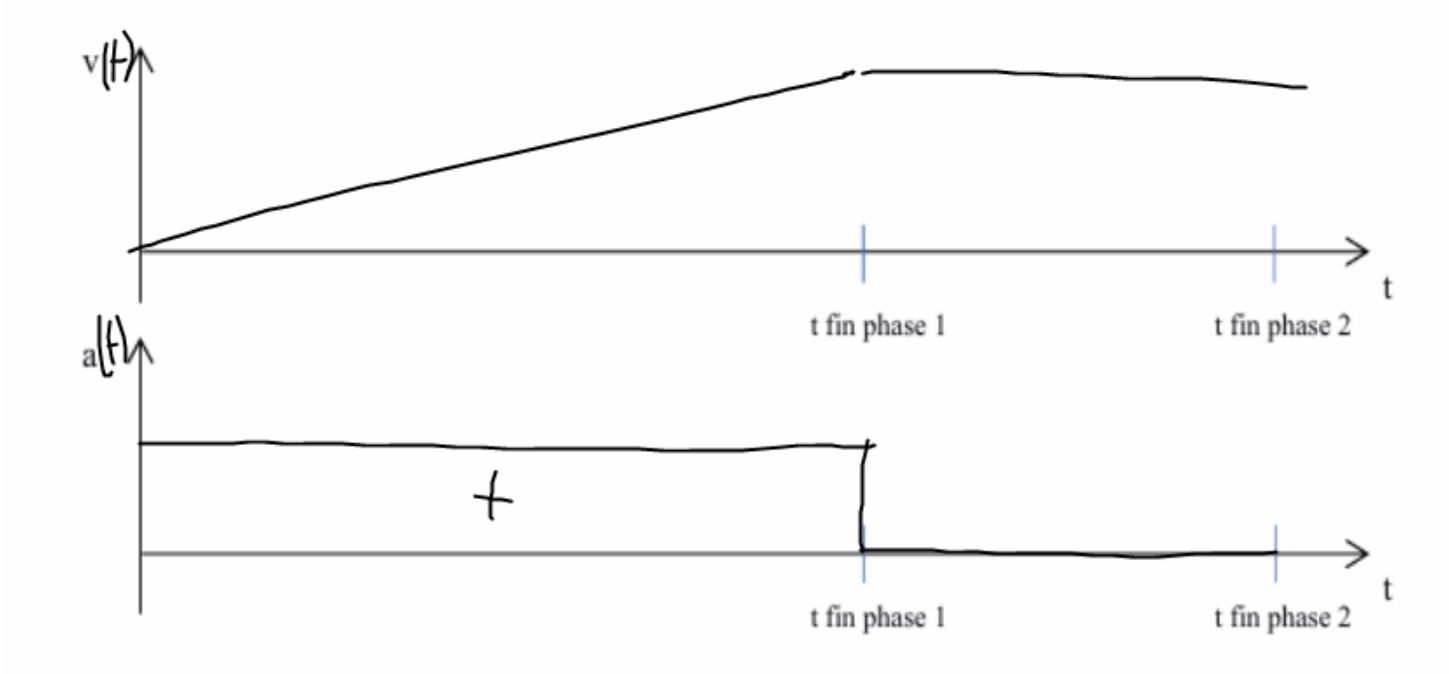

$$V = \omega \cdot R$$

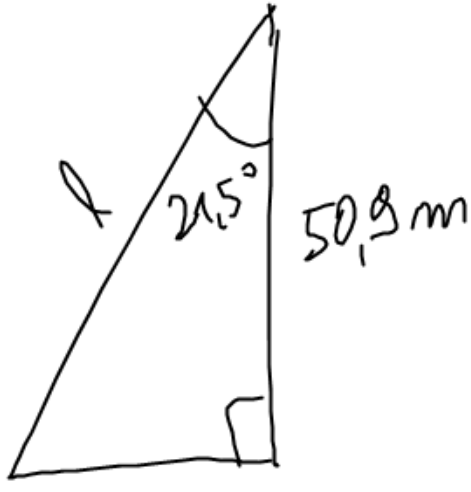
$$\omega = \frac{V}{R}$$

$$\|\vec{a_n}\| = \omega^2 \cdot R$$

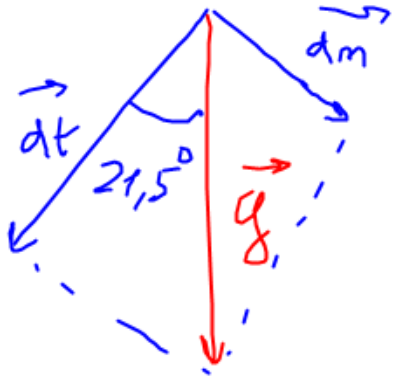
$$= \frac{V^2}{R^2} \cdot R$$

$$\|\vec{a_n}\| = \frac{V^2}{R}$$




$$l = \frac{50,9}{\cos 21,5} \simeq 54,7\ m$$




$$\|\vec{a_t}\| = 9,81 \cdot \cos 21,5$$

$$\simeq 9,13 \ m/s^2$$