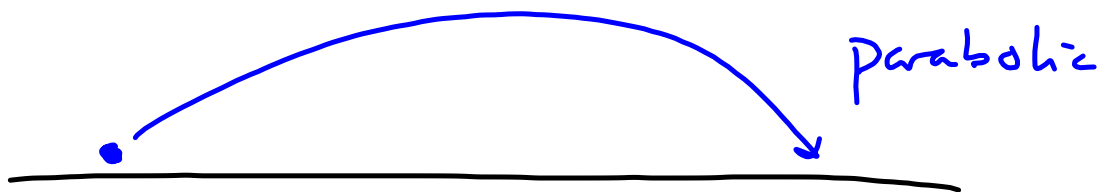
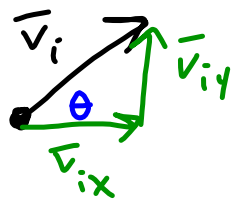


## 2D MOTION (PROJECTILE MOTION)

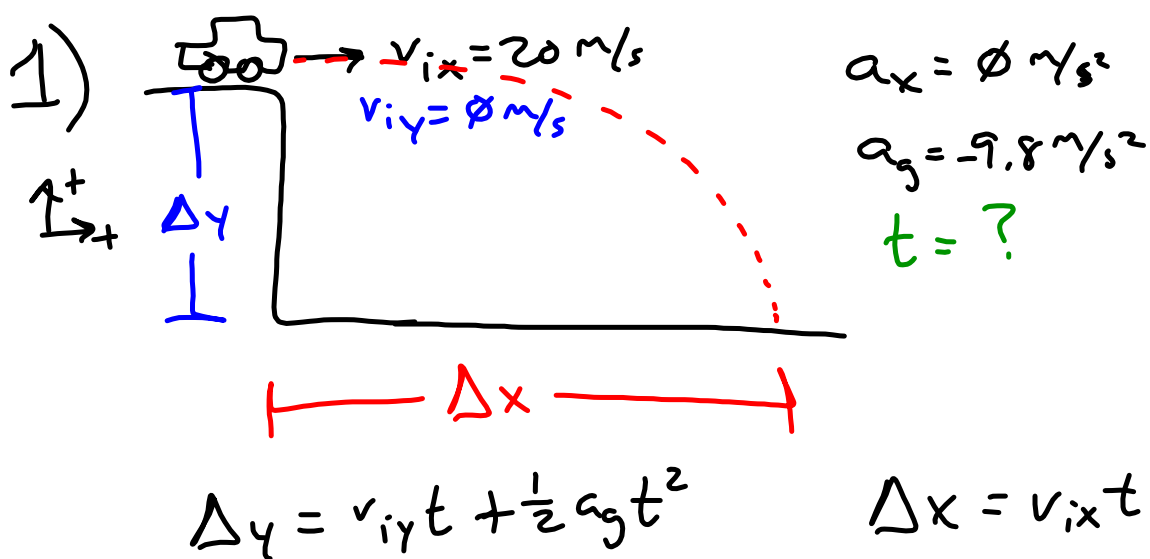
- Extension of free-fall
- Only force acting is in  $y$ -direction: gravitational force



- No acceleration in  $x$ -direction
- Break  $\vec{v}$  into  $\vec{v}_x$  and  $\vec{v}_y$



- Use kinematics equations  $\rightarrow$  time is link



$$2) \quad v_i = 5.33 \text{ m/s}$$

