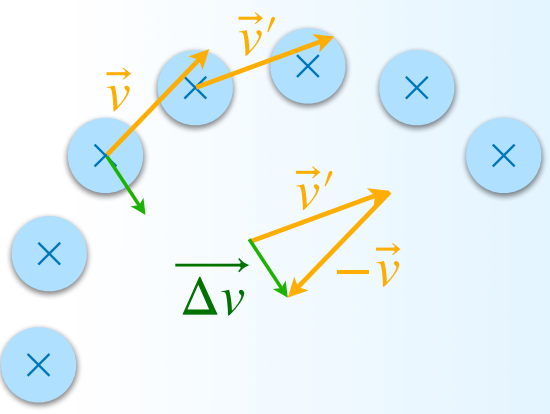


$$\overrightarrow{\Delta v} = \vec{v}' - \vec{v} = \vec{0}$$



$$\overrightarrow{\Delta v} \neq \vec{0}$$

1^{re} loi de Newton

(principe d'inertie)

$$\text{MRU} \Leftrightarrow \sum \vec{F} = \vec{0}$$

\Leftrightarrow

$$\overrightarrow{\Delta v} = \vec{0}$$

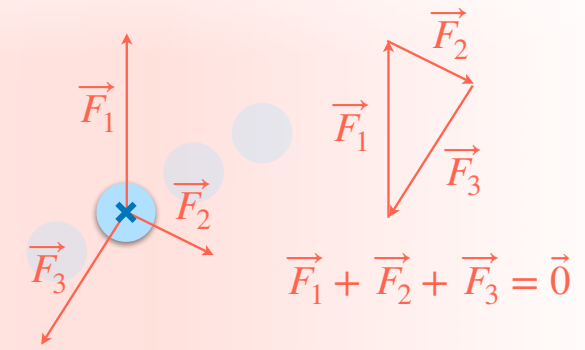
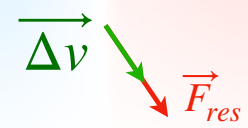
Et donc (contraposée)

$$\text{MRU} \Leftrightarrow \sum \vec{F} \neq \vec{0}$$

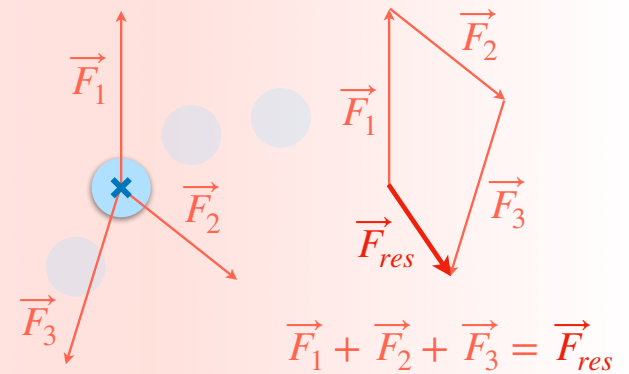
\Leftrightarrow

$$\overrightarrow{\Delta v} \neq \vec{0}$$

$$m \times \overrightarrow{\Delta v} \approx \vec{F}_{res} \times \Delta t$$



$$\vec{F}_1 + \vec{F}_2 + \vec{F}_3 = \vec{0}$$



$$\vec{F}_1 + \vec{F}_2 + \vec{F}_3 = \vec{F}_{res}$$