

## MRU

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

$$x = x_i + v \cdot \Delta t$$

## MRUA

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

$$x = x_i + v_i \cdot \Delta t + \frac{a \cdot (\Delta t)^2}{2}$$

## Force

$$F = m \cdot a$$

$$F = P \sin(\alpha); F = \frac{P}{\sqrt{1 + \left(\frac{H}{L}\right)^2}}$$

$$C^2 = A^2 + B^2$$

## Énergie

$$E_{meca} = F \cdot d$$

$$E_{potentielle} = m \cdot a_t \cdot h$$

$$E_{cinétique} = \frac{m \cdot v^2}{2}$$

## Puissance

$$P = \frac{E}{t}$$

## Frottement

$$F_f = \frac{1}{2} \cdot \rho \cdot C_x \cdot S \cdot v^2$$