Newton's second law:

$$\vec{F}_R = m\vec{a},\tag{1}$$

$$\vec{F}_R = \sum_i \vec{F}_i,\tag{2}$$

where \vec{F}_R - resultant force and \vec{F}_i are forces acting on the body. Momentum (\vec{P}) can be expressed as:

$$\vec{P} = m\vec{V} = \vec{F}\Delta t. \tag{3}$$

Where velocity (\vec{V}) is equal to

$$\vec{V} = \vec{a}\Delta t \tag{4}$$

or, devided by components,

$$V_x = a_x \Delta t,\tag{5}$$

$$V_y = a_y \Delta t. \tag{6}$$

Work and energy can be found using

$$\vec{A} = \vec{F} \cdot \vec{d} \tag{7}$$

$$E_k = \frac{mV^2}{2},\tag{8}$$

$$E = A, (9)$$

where A is the work exerted on the body and E is the energy of the body and " \cdot " is the dot product or scalar product.