Kinematics

translational	rotational
x	θ
v	ω
a	α

Dynamics

translational	rotational	
$\vec{F}$	$\vec{\tau}$	
m	I	$\to mr^2$
$\vec{P}$	$\vec{L}$	$\to I\omega^r$

1st Law of Motion

Translational

$$\vec{F}_{net} = \vec{0}$$
$$\downarrow$$
$$\vec{P} = \text{constant}$$
$$\left(\vec{a} = \vec{0} \text{ if } m \text{ is constant} \right)$$
$$\downarrow$$
$$v = \text{constant}$$

Rotational

$$\vec{\tau}_{net} = \vec{0}$$
$$\downarrow$$
$$\vec{L} = \text{constant}$$
$$\left(\vec{\alpha} = 0 \text{ if moment of inertia } I \text{ is constant} \right)$$
$$\downarrow$$
$$\omega = \text{constant}$$