

KINEMATICS

translational	rotational
position \vec{x}	$\vec{\theta}$
velocity \vec{v}	$\vec{\omega} \times \vec{r}$
acceleration \vec{a}	$\vec{\alpha} \times \vec{r}$

DYNAMICS

translational	rotational
- force \vec{F}	$\vec{r} \times \vec{F}$ torque $\vec{\tau}$
- momentum \vec{p}	$\vec{r} \times \vec{p}$ angular momentum \vec{L}
$\vec{p} = m\vec{v}$ mass	$\vec{L} = I\vec{\omega}$ moment of inertia

LAWS OF MOTION

