Helpful formulas and information

1 km = 103 m

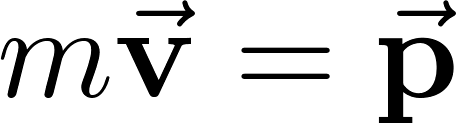
1 mm = 10-3 m

1 m = 10-6 m

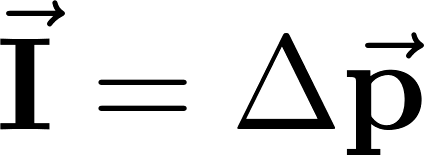
1 nm = 10-9 m

**For constant acceleration**

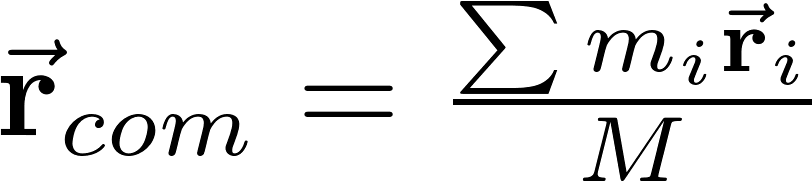
**Linear momentum**



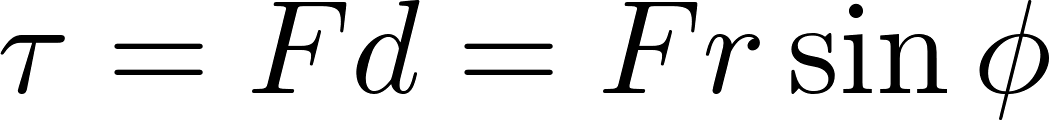
**Impulse**

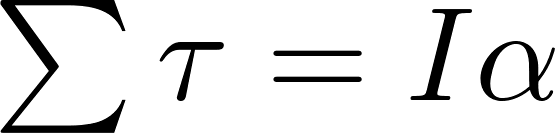


**Center of mass**

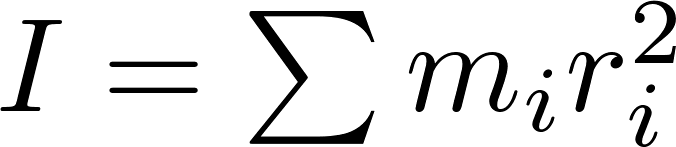


**Torque**





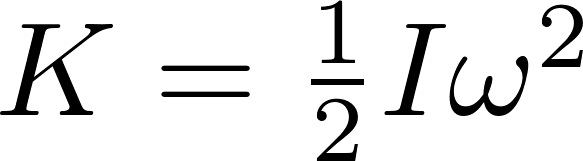
**Moment of Inertia**



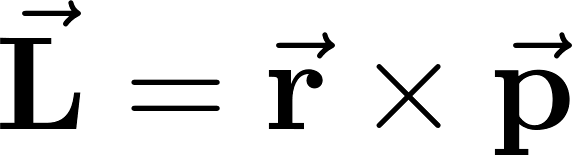
**Parallel-Axis Theorem**

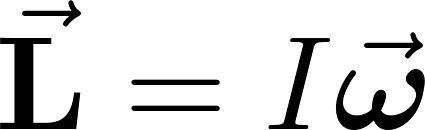


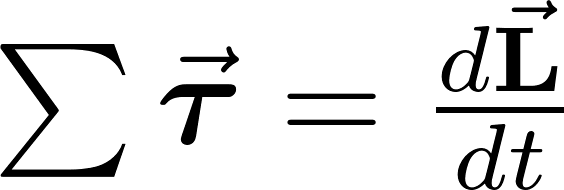
**Rotational kinetic energy**

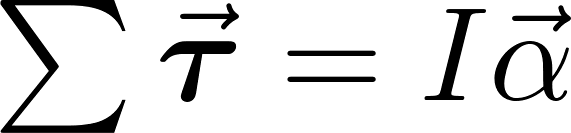


**Angular Momentum**









**For circular motion**

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**Friction**



**Resistive Force**

For low speeds

R = -bv

For high speeds

R = ½ DrAv2

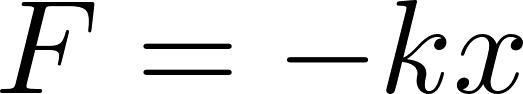
**Work**



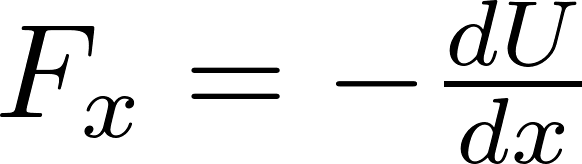
For varying force



**Force for a spring**



**For conservative force**



**Kinetic energy**

