```
(*angular momentum*)
Clear["*"];
```

```
I;(*moment of inertia*)
ω;(*angular velocity*)
L = Iω;(*angular momentum*)
```

$I\omega$

```
r;(*vector*)
p;(*linear momentum*)
L = r × p
```

$r \times p$

$$E_r = \frac{1}{2} m v^2 \text{(*rotational kinetic energy*)}$$

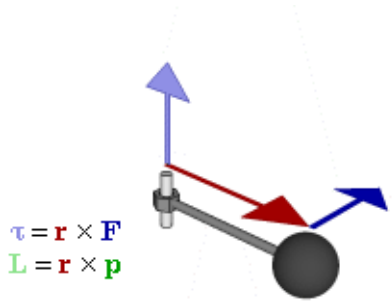
$$\frac{m v^2}{2}$$

```
α;(*angular velocity*)
τ = I α(*torque*)
```

$i \alpha$

```
τ = r × F
```

$r \times F$




```
θ;(*angle between force and lever arm vector*)
τ = r F sin θ
```

$F r \sin\theta$