

O Average angular Velocity

1) Instantaneous angular velocity

D Average angular acceleration

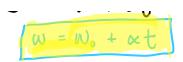
3 Instantaneous angular acceleration

$$(s = r\theta)$$

$$|a_t| = |a_t|^2 + a$$

$$0 = u + at$$

$$w = w_0 + at$$



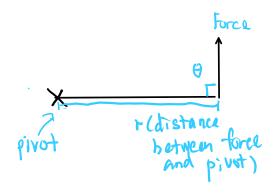
$$(2) V^{2} = U^{2} + 2\alpha S$$

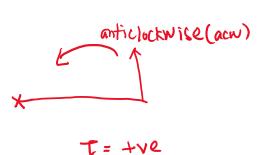
$$(4)^{2} = W_{0}^{2} + 2\alpha S$$

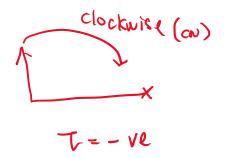
$$3 s = ut + \frac{1}{2} \alpha t^2$$

$$\theta = \omega_0 t + \frac{1}{2} \alpha t^2$$

1) Torque







1) Translation equilibrium

@ rotational equilibrium

1) Moment of

Inertial shape body

Thertial rotational rotational oxis

rolational axis

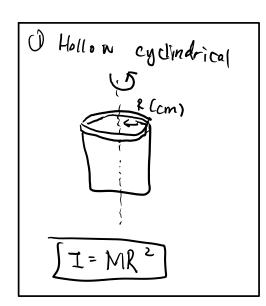
Kam Masi distr

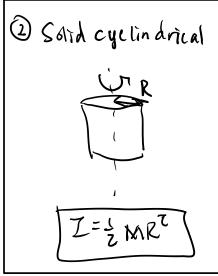
igm bject

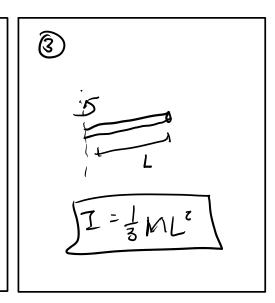
(Icg)

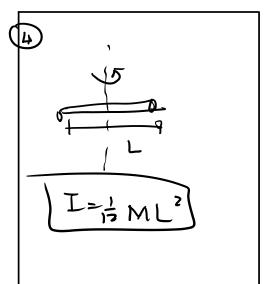
distance between object and

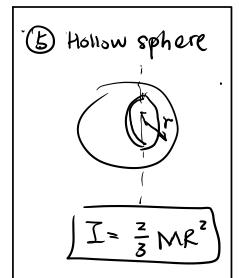
stational axis

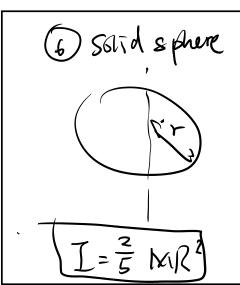






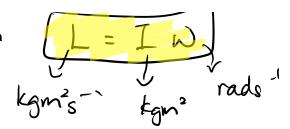






O Linear motion = F = ma Drotational motion = T= Nn kgn2 rads-2

Angular momentum



3 Conservation

$$\frac{1}{1} = \frac{1}{2}$$

$$= \frac{1}{1}$$

$$= \frac{1}{1}$$