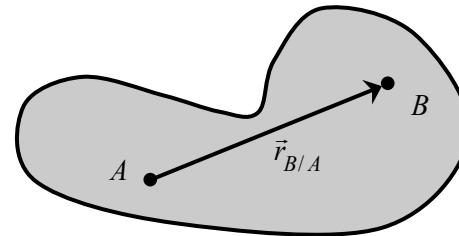


Summary: Rigid Body Kinematics 2

PROBLEM: Two points A and B on the same rigid body undergoing planar motion.

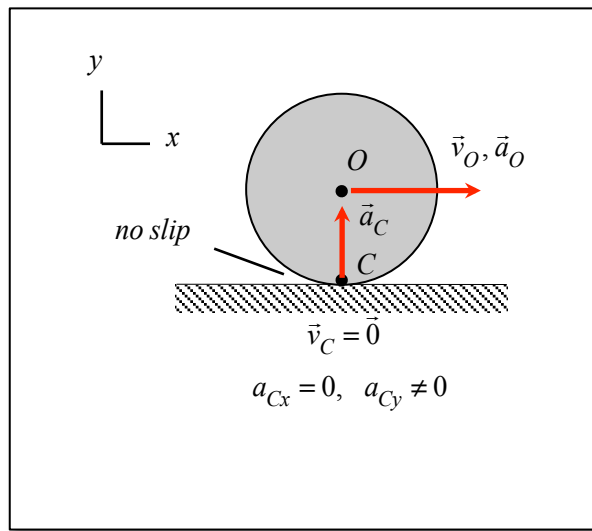
$$\vec{v}_B = \vec{v}_A + \vec{\omega} \times \vec{r}_{B/A}$$

$$\vec{a}_B = \vec{a}_A + \vec{\alpha} \times \vec{r}_{B/A} + \vec{\omega} \times (\vec{\omega} \times \vec{r}_{B/A})$$



SPECIAL TOPIC: Rolling without slipping

rolling on fixed surface



rolling on moving surface

