P4.6-6) Arm OA has an angular velocity of ω . If no slipping occurs between the disk and the fixed outer ring, determine the angular velocity of the disk in terms of R , r and ω . Given:	ω',α' ω,α R
Find:	
Solution:	
Instantaneous center of zero velocity	
Locate the IC and indicate its location on the figure.	
Draw a coordinate system on the figure.	
Point A	
Determine the velocity of point A in two different ways (i.e. from point O and from the IC.)	
Angular velocity	
Determine the angular velocity of the disk.	

ω' = _____