Ω C

r

A 2r B

O

Determine the angular velocity of link BC for the instant indicated given 2 cases:

Case a: the center of the disk is fixed pivot and the disk rotates about this pivot with angular velocity Ω.

Case b: the disk rolls without slipping on the horizontal surface with angular velocity Ω.

Assume pin A is at the edge of the disk.

1. Ωbc = Ω
2. Ωbc = 2 Ω both in the CCW direction.