

Act: Two Disks

- First realize that there are no external torques acting on the two-disk system.
 - Angular momentum will be conserved!

$$L_i = I_1 \omega_1 + 0 = \frac{1}{2} MR^2 \omega_i \qquad L_f = I_1 \omega_1 + I_2 \omega_2 = MR^2 \omega_f$$

$$\frac{1}{2} MR^2 \omega_i = MR^2 \omega_f$$

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

