

Name	Partner	Date
Mass of Disk		Radius of Disk
Calculate the rotational inertia of the disk about an axis thru its center perpendicular to its surface:		
Mass of Ring		Inner and outer radii of Ring
Calculate the rotational inertia of the ring about an axis thru its center perpendicular to its surface:		
Sketch graph of angular velocity vs time (ω vs t) and identify regions BEFORE, DURING, and AFTER the collision.		Initial angular velocity, ω_i
		Final angular velocity, ω_f
Compute the initial and final angular momentum		

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Write a statement discussing whether you observed the angular momentum of this system to be conserved		
Compute the initial and final kinetic energy of the system		
Write a statement discussing whether you observed the kinetic energy of this system to be conserved		
Compute the ratio K_f / K_i and compare to the theoretical result $I_{DISK} / (I_{DISK} + I_{RING})$ using the formula you derived in the prelab.		
<p>Attachments:</p> <p><input type="checkbox"/> Annotated graph showing the angular velocity versus time plot of experimental data.</p> <p><input type="checkbox"/> Annotated graph showing the angular velocity versus time plot from the simulation.</p>		