## Goals for the Lecture:

- 1) Understand how to use rotational kinematics equations to solve rotation problems
- 2) Understand what torque is and how to calculate it

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## Goals for the Lecture:

- 3) Understand how to use Newton's 2<sup>nd</sup> Law for rotation ( $\Sigma \tau = I\alpha$ ) to solve problems
- 4) Know how to use the chart of rotational inertias to find rotational inertia of common shapes about typical axes of rotation
- 5) Know how to use the Parallel Axis Theorem, in conjunction with the chart of rotational inertias, to find the rotational inertia about any parallel axis of rotation
- 6) Know how to integrate to find the rotational inertia of one dimensional objects, including objects with non-uniform mass density







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