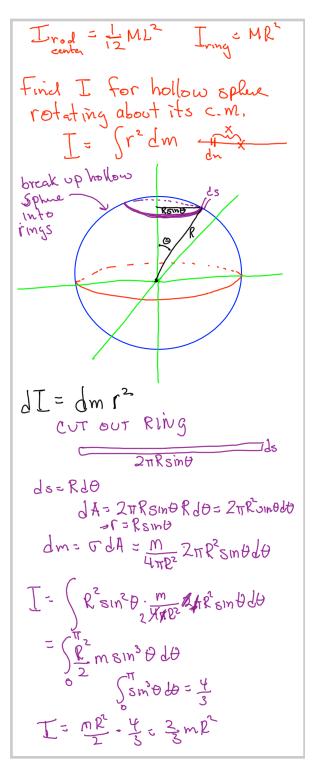
Reminders 04-08-10:

- -POW 9 Due Tuesday
- -Quiz in Recitation next week

Objectives

- -Moment of Inertia Examples
- -Torque + examples
- -More on Rolling Motion

Title: Oct 14-9:44 AM (1 of 9)



Title: Apr 8-11:05 AM (2 of 9)

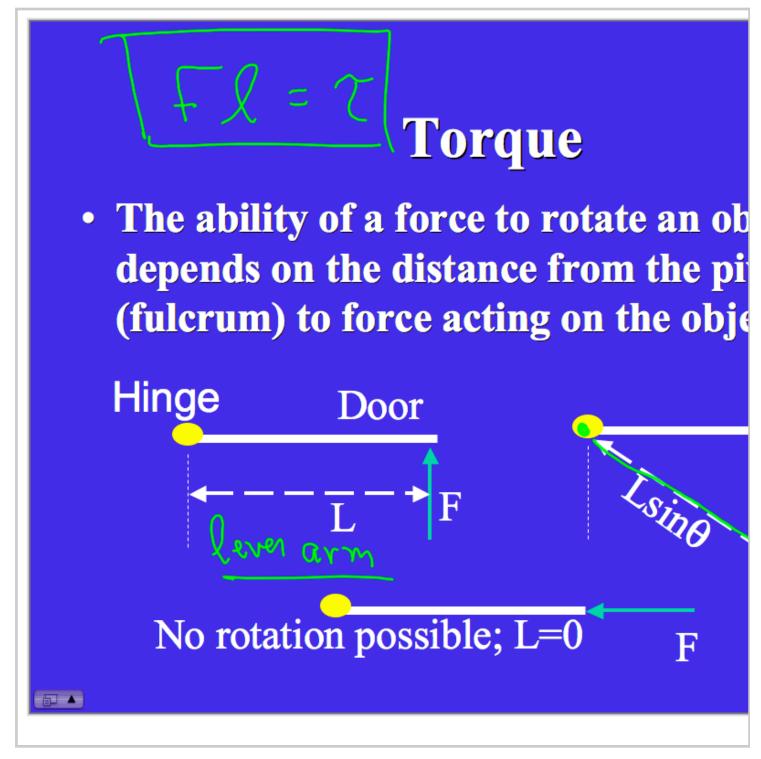
Let's try solid sphere I hollow splace = 3 m R2 Break up solid into hollow spheres of thekness dr. LT of each hollow sphere is 3 dmr2 dT= Zrdm need dm for Bach sphere dm=p4mrdr=m=4mrdr dm = 3mr2dr $T = \frac{2}{3} \int_{1}^{K} \frac{3mr^{2}}{p^{3}} dr - \frac{2}{3} \left(\frac{1}{6}\right) 3mR^{2}$

Title: Apr 8-11:18 AM (3 of 9)

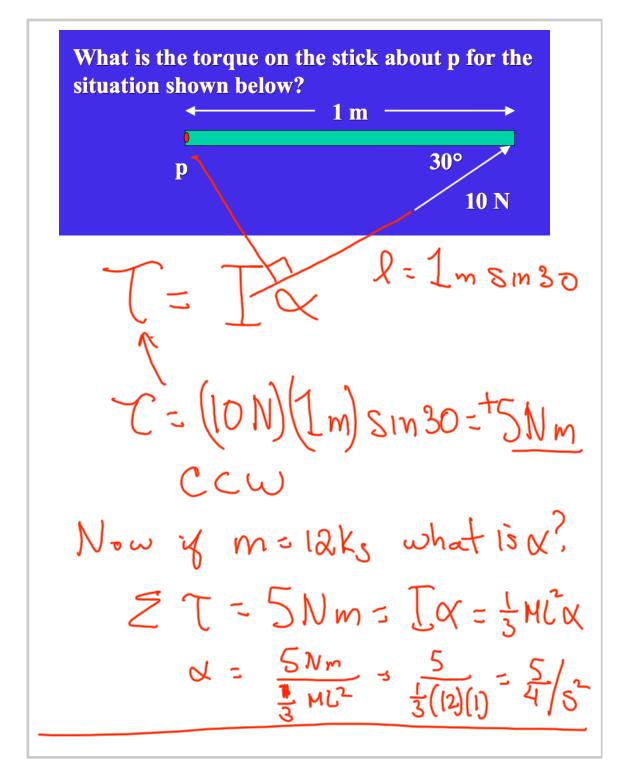
What is the rotational inertia of a hollow sphere rotated about an axis that passes through the end of a diameter?

What is the rotational inertia of a square plate rotated about an axis that passes through its corner?

Title: Apr 8-11:29 AM (5 of 9)

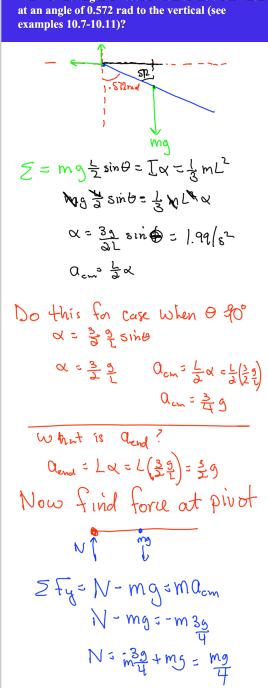


Title: Apr 8-11:38 AM (6 of 9)

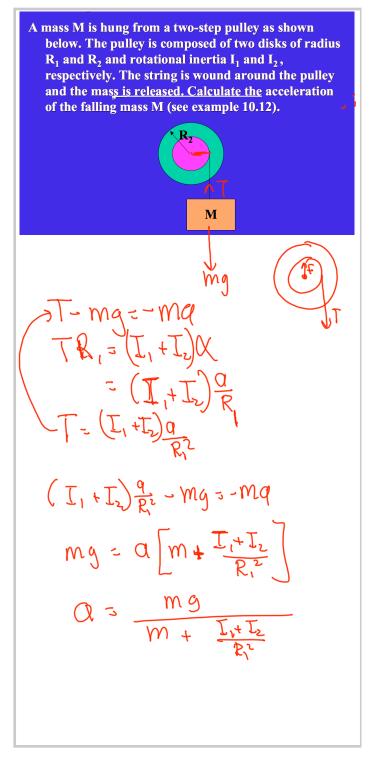


Title: Apr 8-11:53 AM (7 of 9)

A 4 meter stick of mass m is suspended from an end and released from rest in a horizontal orientation. What is the angular acceleration of the stick when at an angle of 0.572 rad to the vertical (see examples 10.7-10.11)?



Title: Apr 8-11:58 AM (8 of 9)



Title: Apr 8-12:14 PM (9 of 9)