Your Name_____Section_____

HOMEWORK #10 - 8.01 MIT - Prof. Kowalski

Due 4:00PM Thursday Nov. 13, 2003

Topics: Angular Energy and Angular Momentum

Any following problems designated with a bold number indicate problems from Young and Freedman 11th edition.

1. **10.70**
   b. Draw a picture showing the angle of the string that will not result in any motion of the yo-yo if the string is pulled gently.
   c. Find this angle in terms of R and r, the radii of the yo-yo and its shaft respectively
   d. What will happen if the tension in the string is increased at this angle?
2. **10.78**
3. **10.87**
4. **10.101**