

NAME (Print) _____

Borough of Manhattan Community College

Course *Physics 215*

Instructor: *Dr. Hulan E. Jack Jr.*

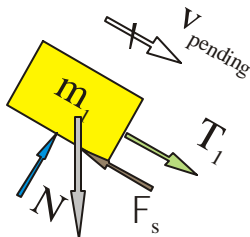
Date **October 3,2002**

Quiz BC 05 Makeup

Set up the equations of motion for each FBD (Free Body Diagram). First state the physical principle(s) that apply under **Principle(s)**. Then fill in the details appropriate to the body under **Details** .

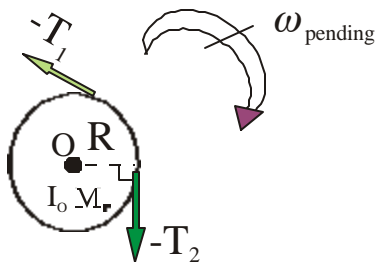
Note:

- (1) The “-“ signs have been dropped from the action-reaction pairs.
 - (2) The body forces, the weights m_1g and m_2g , have been added. They act from the center of the body.
 - (3) Since the connecting string is inextensible, the velocity and acceleration of m_1 and m_2 will be the same.
- The bodies are just on the verge of moving.



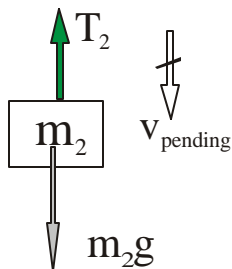
Principle(s) 20 pts

Details 10 pts



Principle(s) 20 pts

Details 10 pts



Principle(s) 10 pts

Details 10 pts

What's your learning style?

Are you auditory, learn by hearing? Then talk it out loud.

Are you visual, learn by seeing? Then draw pictures, doodles, sketches.

Are you kinesthetic, learn by movement? Then act it out. Pretend