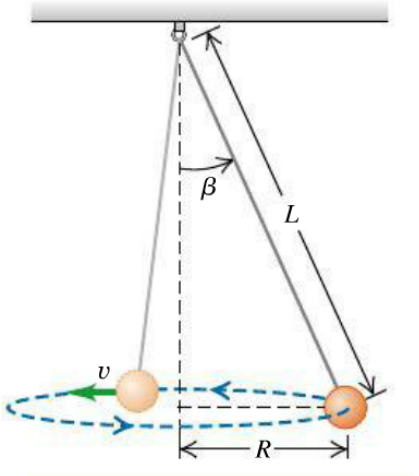
Engineering Physics I – Fall 2015
Quiz 5 – October 15, 2015
Name:

1. What are the two types of friction? (Circle the right answers from the choices below)

Gravitational	Static	Tension
Kinetic	Contact	Normal

2. True or False The constant g = 9.81 m/s^2 is a force.

3. What is the net force on the ball shown in the figure? (The ball is hanging on a string and is spinning around at a constant speed. Gravity is acting on the ball.)

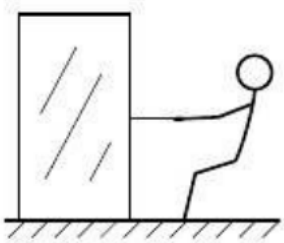


mg ma_c zero (N) T (tension in rope)

4. I apply a force of magnitude F=10 N to an object that is initially at rest on a horizontal surface, and it remains at rest.

a) What is the magnitude of the friction force?

$\mu_s mg$ $\mu_k mg$ zero (N) F (10 N)



b) Do you have enough information to calculate μ_s?

Yes No