

Physics 2314, Homework #9 (due 4/18)

Multiple choice questions

- M1 Which of the following is necessary for the center of gravity of an object to coincide with its center of mass?
- A. The object is flat.
 - B. The object has axial symmetry.
 - C. The gravitational acceleration \mathbf{g} is uniform over the object.
- M2 A ladder stands on the ground, leaning against the wall. Would you feel safer climbing up the ladder if you were told that the ground is frictionless but the wall is rough or if you were told that the wall is frictionless but the ground is rough?
- A. Rough wall is better.
 - B. Rough ground is better.
 - C. Depends on the angle between the ladder and the wall.

