

1. A compound object is comprised of a thin rod of length L and mass m , and a sphere of radius R and mass M , joined as in the figure below. Starting with the moments of inertia for rods and spheres (handout) calculate the moment of inertia of the object (a) about one end of the rod, (b) about the center-of-mass of the rod-sphere object, and (c) about the far edge of the sphere.

