

Name:	
ID:	
Total Score (out of 10 pts):	

-4/10 points for attending-

Question 1 (6/10 points)

A 2.0 kg solid cylinder of diameter 1.0 m is rolling towards right on a surface without slipping with 4 rad/s. ($I_{cyl} = 1/2 MR^2$)

- What is the speed of the center of mass?
- What is the total kinetic energy of the cylinder?