Physics 101 – Spring ‘24

Sect.04_V1

QUIZ 10

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

-4/10 points for attending-

Question 1 (6/10 points)

What is the change in the kinetic energy of a solid sphere of mass M and radius R that rolls down an inclined slope by a height of h? Assume that the sphere rolls without slipping on the surface of the slope and the sphere starts from the rest. $I_{Sphere} = \frac{2}{5}MR^2$