Paper Submission No. 09C (Fall 2018)

PHYS 203A: College Physics

Due date: Thursday, 2018 Dec 6, 12.35pm, in class

(Name) (Signature)

Instructions

1. Your submission should include only this page. Other forms of submissions will not be accepted. Please print this page, and write your solution on the back side.
2. Show your thought process in detail and organize it clearly.
3. Make sure your answer has the correct units and the right number of significant digits.

Question

A cylinder ($I = \frac{1}{2}MR^2$) rolls perfectly (without sliding or slipping) on an inclined plane. If the cylinder started from rest at the top, vertical height of 1.20 m, what is the velocity of the cylinder when it reaches the bottom of the incline?