Paper Homework No. 08 (Spring 2018)

PHYS 203A: College Physics

Due date: Wednesday, 2018 Apr 11, 2.00pm, 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 car is traveling with a speed of 25 m/s along a straight horizontal road. The wheels have a radius of 0.30 m. If the car speeds up with a linear acceleration of 2.0 m/s^2 for 7.0 s, find the angular displacement of a point on the outer edge of each wheel during this period.