

Classwork Assignment: Wednesday, October 14

Do all problems on a separate piece(s) of paper. Box your final answers. Show all your work and write your answers in simplest form. Always write the exact answer, instead of a decimal approximation, unless otherwise instructed.

After you're done, scan all pages of your solution, in the correct order, into a single PDF file and submit on Canvas. The deadline is 9:00 a.m. on Thursday, October 15.

-
- The wheels of an automobile is rotating at 745 revolutions per minute. If the wheel diameter (including the tires) is 24 inches, how fast is the vehicle moving, in miles per hour? Round your answer to two decimal places. You may assume the following:
 - The wheels are perfectly circular with the tires on.
 - The tires do not slip on the road surface.
 - The vehicle is moving on a straight road.
 - There are 5280 feet in 1 mile, and 12 inches in 1 foot.