

Physics 1101 Experiment 9 Homework

NAME _____

1. Define average velocity and average acceleration.
2. Explain the difference between constant velocity and constant acceleration. Are you more likely to be able to walk at constant velocity or at constant acceleration? Explain your reasoning.
3. A one-meter long bar on a flat and level surface has one end elevated by 5.27 cm with respect to the other end. What is the angle between the bar and the level surface?
4. For the equation $x = x_0 + v_0t + (1/2)at^2$, what does a graph of x versus t look like? What does the graph look like if $a = 0$?
5. How does a smart pulley work?

NOTE: You should answer question 1 in Experiment 9 in the laboratory manual before you come to the laboratory.