Honors Physics

UFM Lab Practicum

2015-09-30

Write-up due: Monday, October 5

Given a modified Atwood's machine setup, the goal of the lab is to calculate the angle necessary for the system to have an acceleration of 0 m/s/s. Each group will be given a different mass, which you will use in the calculations.

Mass of cart: 500 g

Hanging mass: \_\_\_\_\_\_\_\_\_\_\_\_

Calculations for Trial 1:

Theoretical angle of ramp: \_\_\_\_\_\_\_\_\_\_\_\_

Calculations for Trial 2 (if necessary):

Theoretical angle of ramp: \_\_\_\_\_\_\_\_\_\_\_\_

Rubric for Write-up (20 Points total):

1. Introduction (5 Points)
2. Calculations (5 Points)
3. Analysis (8 Points)
   1. What happened when you released the cart/mass
   2. Comparison of calculated and experimental angles
   3. Percent error calculation
   4. Ways to improve experiment
4. Conclusion (2 Points)