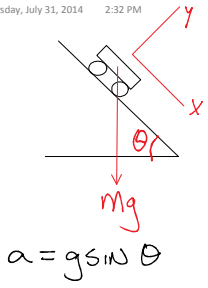


Lab 4 - Board Notes - Acceleration of a Cart (Uniform Acceleration in 1D)

Thursday, July 31, 2014 2:32 PM



EXPERIMENT

→ MOTION SENSOR @ 20HZ
CH 1 & 2

GRAPH POSITION vs. TIME
VELOCITY vs. TIME
ACCEL. vs. TIME

HARDWARE
 $\theta = 10^\circ$

LAB REPORT

- 1) COVER PAGE
- 2) ANALYSIS Q&A
- 3) ATTACHMENTS (x3)

- POSITION vs TIME
→ QUADRATIC FIT
→ $A \approx \frac{1}{2} a$
→ $B = v_0$
→ $C \approx x_0$

- VELOCITY vs TIME
→ LINEAR FIT

- ACCELERATION vs TIME
→

CAPTURE MEAN USING STATISTICS TOOL

COMPARE ACCEL FROM

$v.$ vs $t.$
 \neq
 $a.$ vs $t.$