



Answer Sheet

Experiment 1 - The Atwood Machine

A) What was the predicted acceleration of the atwood machine?

$$a = \left(\frac{m_2 - m_1}{m_2 + m_1} \right) g = \text{_____} \text{ m/s}^2$$

B) What was the measured acceleration of the atwood machine? $a = \text{_____} \text{ m/s}^2$

Experiment 2 - The Cart On a Ramp

2.A) Fill in the following table.

No. of Bricks	Height (cm)	Length (cm)	sin(θ) = h/L	Acceleration (m/s^2)
1		100		
2		100		
3		100		
4		100		
5		100		

B) Plot a vs $\sin \theta$ in Excel and perform a linear fit. What is the slope? $g = \text{slope} = \text{_____} \text{ m/s}^2$

