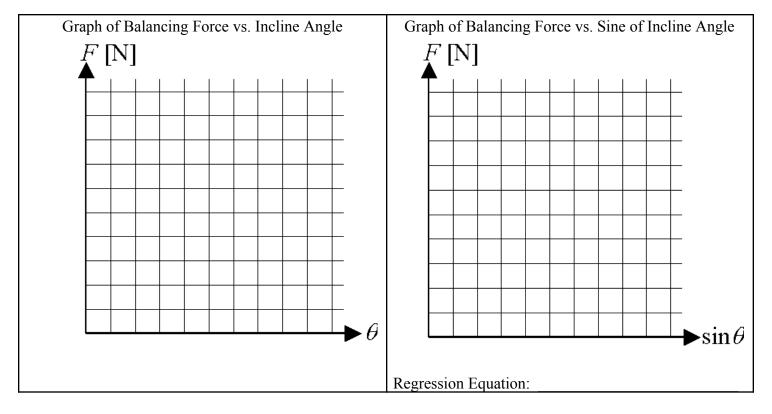
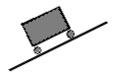
Name:	Partners:
	LAB: Inclined Plane
Purpose: To determine the rewhen placed on the	ionship between the angle of an inclined plane and the force an object feelined plane.
Materials: (List all materials t	were used to complete the lab exercise.)
·	
	rough draft of your procedure and diagram below)
<u>Data Tables</u> : (Fill in these data	
Mass of the Car: $M = $	Weight of the Car: $F_W =$

Angle of Inclination $\theta$ [Degrees]	Sine of the Angle of Inclination $\sin \theta$	"Down the Plane" Force F [N]
10		
20		
30		
40		
50		
60		
70		
80		
90		

Graphs: (Plot points that represent the data taken in the data tables. Label the axes with appropriate scales.)



<u>Force Diagram</u>: (Draw and label the forces on the cart used in the lab shown below. Assume the track is FRICTIONLESS.)



Derivation of "Down the Plane" Force (Conclusion):

<u>Error Analysis</u>: State a source of error in your measurements of force and/or angle and explain whether the source of error is systematic or random.