

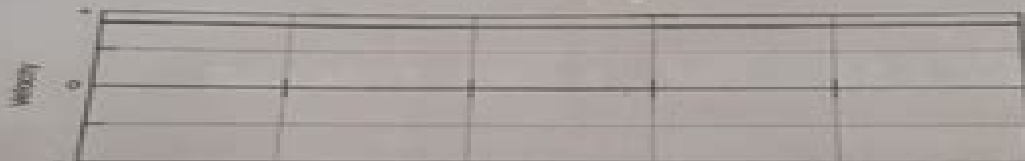
## PRE-LAB PREPARATION SHEET FOR LAB 4: COMBINING FORCES

(Due at the beginning of Lab 4)

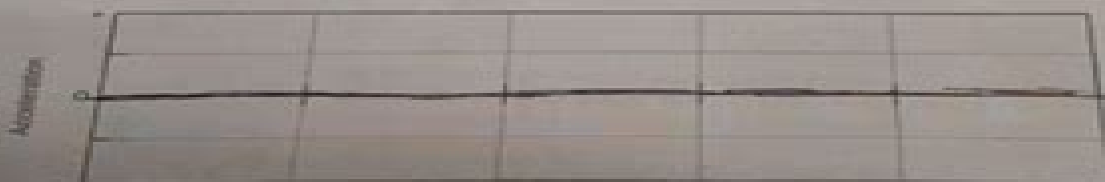
**Directions:**

Read over Lab 4 and then answer the following questions about the procedure.

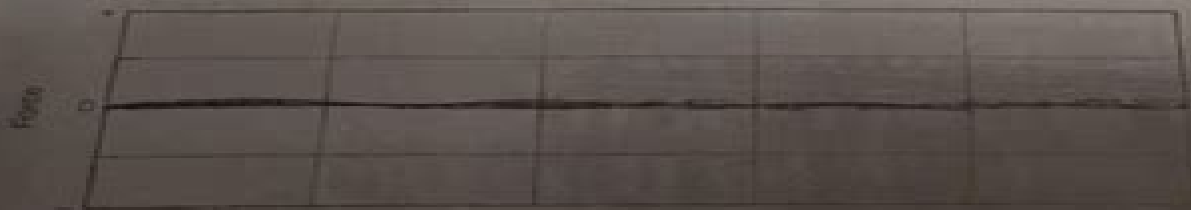
1. A cart is moving toward the right and slowing down, as in Activity 1-1. Predict the direction of the combined (net) force on the cart.  
 1) Starts with  $(\rightarrow)$ , adds  $(\leftarrow)$ , slows down but still goes towards right
2. In Activity 2-1, what are the spring scales used for?  
 The Spring Scales are used for scaling force (then calibration) so we can get measurements
3. Why are two fan units used in Activity 2-2?  
 The two fan units are for changing rate of acceleration (Speed up and slow)
4. Sketch your Prediction 3-2 on the axes below.



Velocity is constant  
 so  $a = 0$ ,  
 $F = 0$



$0 = a$



$0 = F$

# Lab 4 Physics Answers Combining Forces

**David Baud**



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RealTime Physics: Active Learning Laboratories, Module 1 David R. Sokoloff, Ronald K. Thornton, Priscilla W. Laws, 2011-11-15 The authors of RealTime Physics Active Learning Laboratories Module 1 Mechanics 3rd Edition David Sokoloff Priscilla Laws and Ron Thornton have been pioneers in the revolution of the physics industry In this edition they provide a set of labs that utilize modern lab technology to provide hands on information as well as an empirical look at several new key concepts They focus on the teaching learning issues in the lecture portion of the course as well as logistical lab issues such as space class size staffing and equipment maintenance Issues similar to those in the lecture have to with preparation and willingness to study RealTime Physics David R. Sokoloff, Ronald K. Thornton, Priscilla W. Laws, 1999 This computer based lab manual contains experiments in mechanics thermodynamics E M and optics using hardware and software designed to enhance readers understanding of calculus based physics concepts It uses an active learning cycle including concept overviews hypothesis testing prediction making and investigations

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**Publications** United States. National Bureau of Standards, 1991 *Publications of the National Institute of Standards and Technology ... Catalog* National Institute of Standards and Technology (U.S.), 1991 Energy Research Abstracts ,1991 Air Force Research Resumés ,1963 **Farmer's Advocate and Home Magazine** ,1901 **Louisiana Planter and Sugar Manufacturer** ,1924 *American School Board Journal* ,1902 The American School Board Journal William George Bruce, William Conrad Bruce, 1901 **American Men of Science** ,1949 American Men and Women of Science ,1972 Brown's Directory of American Gas Companies. Gas Statistics ,1929 **Government Reports Announcements** ,1974-02-22 **Modern Sanitation and Building Maintenance** ,1957 *American Laboratory* ,2007 *General Catalogue Issue* Massachusetts Institute of Technology, 1971 Stanford Bulletin ,2003

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