

# Solve It!

## UNIT 10: Worksheet 3

Fig 2.10

For each of the problems below, carefully draw a free diagram of the system and solve the problem.

1. Determine the tension in each of the strings A and B.

Case 1:



$m = 10 \text{ kg}$   
 $F_g = 100 \text{ N}$

Case 2:



$\Sigma F_y = 0$   
 $F_A + F_B + F_g = F_g$   
 $F_A + F_B = 0$   
 $2F = 100$   
 $F = \frac{100}{2}$   
 $F = 50 \text{ N}$

2. Calculate the weight of each of the masses. Assume that the strings are light and inextensible.



$\Sigma F_y = 0$   
 $F_T + F_g = 0$   
 $F_T = 100 \text{ N}$   
 $100 \text{ N}$



3. Two objects hang from the ceiling from a single string. For each object, draw a free diagram and solve the problem. (Assume that the strings are light and inextensible.)



$\Sigma F_y = 0$   
 $F_T + F_T + F_g = F_g$   
 $2F_T = 0$   
 $2F_T = 100$   
 $F_T = \frac{100}{2}$   
 $F_T = 50 \text{ N}$

Repeat the problem above, but this time assume that the strings are light and inextensible.

$\Sigma F_y = 0$   
 $F_T + F_T + F_g = F_g$   
 $2F_T = 0$   
 $2F_T = 100$   
 $F_T = \frac{100}{2} = 50 \text{ N}$

# Modeling Workshop Project Physics Unit Wwdhd

**Priscilla W. Laws**



## **Modeling Workshop Project Physics Unit Wwdhd:**

**The Physics Suite: Workshop Physics Activity Guide, Module 4** Priscilla W. Laws, 2004-06-07 The Workshop Physics Activity Guide is a set of student workbooks designed to serve as the foundation for a two semester calculus based introductory physics course It consists of 28 units that interweave text materials with activities that include prediction qualitative observation explanation equation derivation mathematical modeling quantitative experiments and problem solving Students use a powerful set of computer tools to record display and analyze data as well as to develop mathematical models of physical phenomena The design of many of the activities is based on the outcomes of physics education research The Workshop Physics Activity Guide is supported by an Instructor s Website that 1 describes the history and philosophy of the Workshop Physics Project 2 provides advice on how to integrate the Guide into a variety of educational settings 3 provides information on computer tools hardware and software and apparatus and 4 includes suggested homework assignments for each unit Log on to the Workshop Physics Project website at <https://www.dickinson.edu/homepage> Workshop Physics is a component of the Physics Suite a collection of materials created by a group of educational reformers known as the Activity Based Physics Group The Physics Suite contains a broad array of curricular materials that are based on physics education research including Understanding Physics by Cummings Laws Redish and Cooney an introductory textbook based on the best selling text by Halliday Resnick Walker RealTime Physics Laboratory Modules Physics by Inquiry intended for use in a workshop setting Interactive Lecture Demonstration Tutorials in Introductory Physics Activity Based Tutorials designed primarily for use in recitations

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