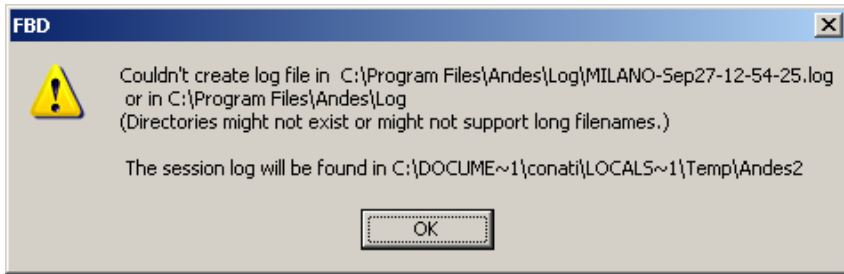
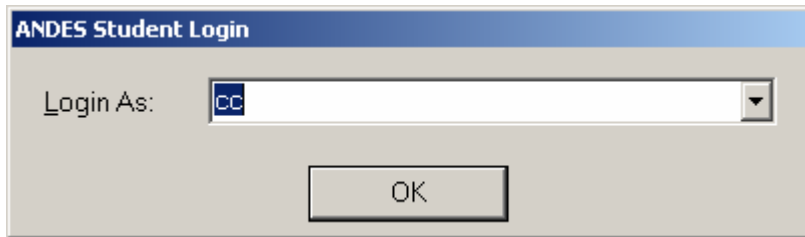


- There is a version of Andes at
ubc-cs\cs-smb\research\faculty\cs532\cpsc532b.
- You need a Windows box to run them, and you need to map a network drive to \cs-smb\research (see http://www.cs.ubc.ca/local/computing/windows/files_directories.shtml for instructions on how to do that).
- To access Andes:
 - go to ubc-cs\cs-smb\research\faculty\cs532\cpsc532b\Andes
 - click on fbd.exe.
 - ignore any "cannot creat file...." message that you may get at that point
- See instructions in the following slides to use the system

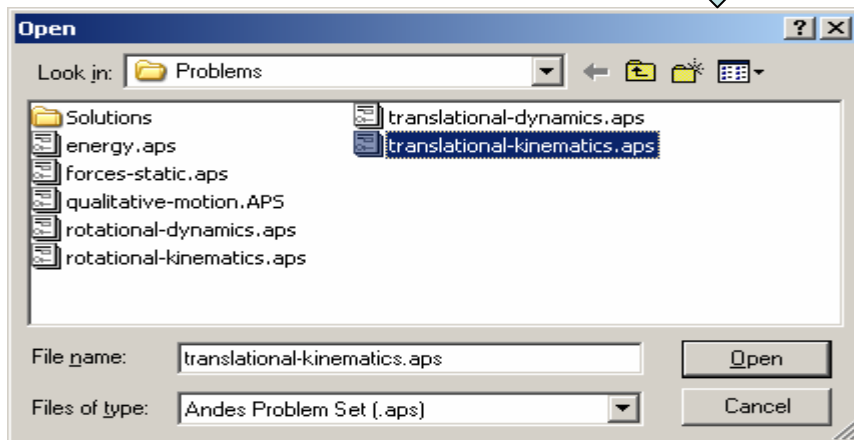
What you will see/do after double clicking on FDB.exe



Ignore this



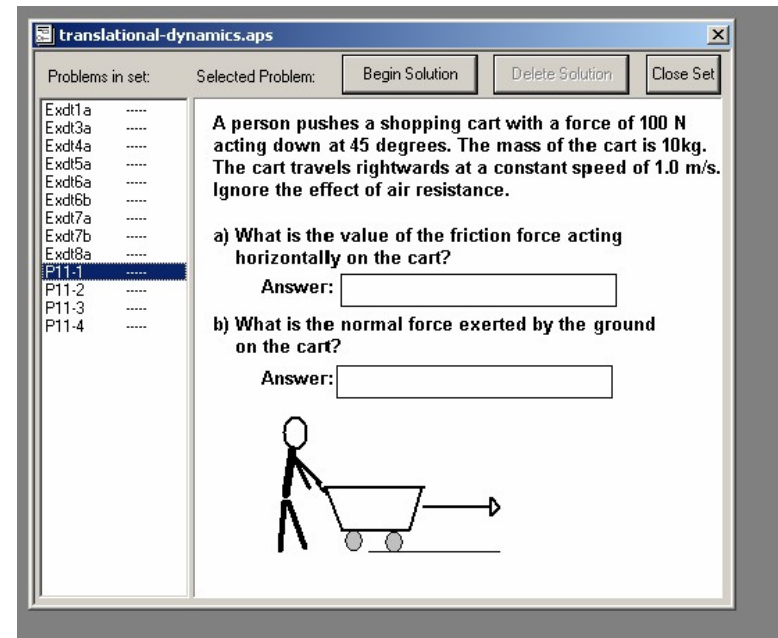
Enter anything you want to login



Select a problem set



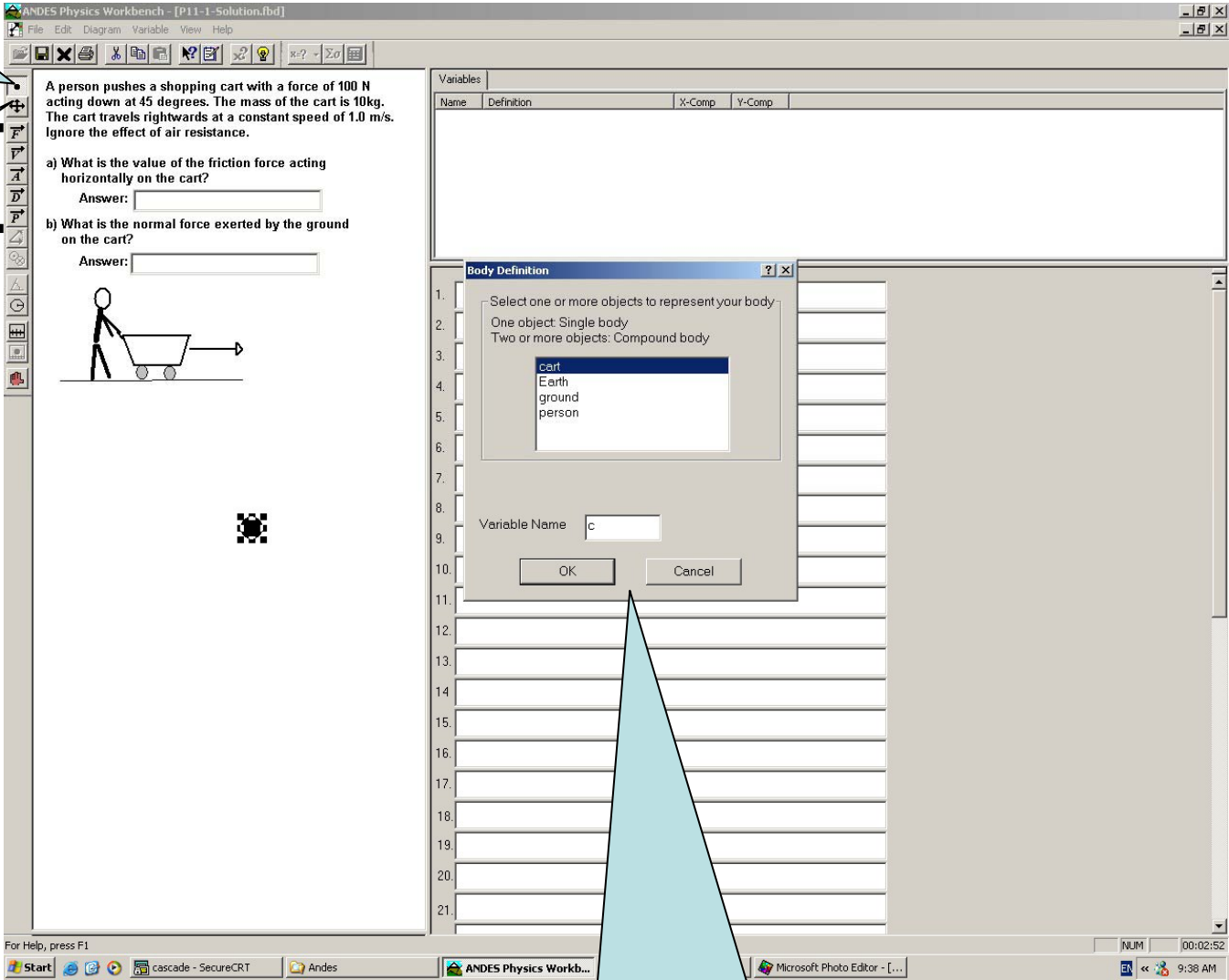
Select a problem



Tool to draw
problem body in
the free body
diagram

Tool to draw axes

Tools to vectors



Dialogue boxes will allow you to specify the necessary info for each element you draw

If you right click on an incorrect entity, you will get a menu with options to ask andes for help

You can also ask for help by clicking on "help"



ANDES Physics Workbench - [P11-1-Solution.0-2]

File Edit Diagram Variable View Help

A person pushes a shopping cart with a force of 100 N acting down at 45 degrees. The mass of the cart is 10kg. The cart travels rightwards at a constant speed of 1.0 m/s. Ignore the effect of air resistance.

a) What is the value of the friction force acting horizontally on the cart?
Answer:

b) What is the normal force exerted by the ground on the cart?
Answer:



Name	Definition	X-Comp	Y-Comp
mc	mass of cart		
F	magnitude of the Contact Force on cart due to Earth		

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Get a hint about the reason an entry was incorrect

Start | cascade - SecureCRT | Andes | ANDES Physics Workb... | Microsoft PowerPoint - [...]| Microsoft Photo Editor - [...]

NUM | 00:04:43 | 9:40 AM

ANDES Physics Workbench - [P11-1-Solution.fbd]

File Edit Diagram Variable View Help

Help Topics

What's wrong with that?

Hint

Hint Followup

Review Physics Equations

How to...

Comment on ANDES...

About ANDES...

Variables

Definition

mass of cart

X-Comp

Y-Comp


A person pushes a shopping cart acting down at 45 degrees. The cart travels rightwards. Ignore the effect of air resistance.

a) What is the value of the force exerted horizontally on the cart?

Answer:

b) What is the normal force exerted by the ground on the cart?

Answer:



Specify some additional properties of the chosen body.

[How do I do that?](#) [Why?](#) [Hide](#)

1. $m_c = 10\text{kg}$
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.
- 11.
- 12.
- 13.
- 14.
- 15.
- 16.
- 17.
- 18.
- 19.
- 20.
- 21.

NUM 00:06:55

Start cascade - SecureCRT Andes ANDES Physics Workb... Microsoft PowerPoint - [...] Microsoft Photo Editor - [...]

9:42 AM