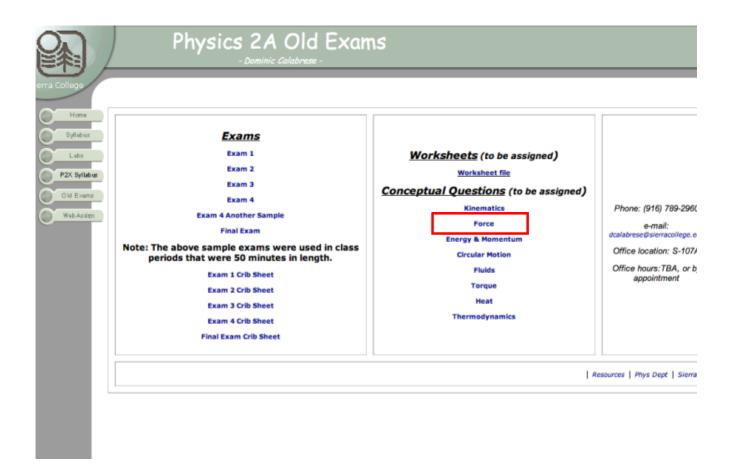
Reminders 10-01-07:

- -Next Homework Due 10/4!!!
- -Newton's Laws Worksheet due Today.
- -Force Conceptual Questions Due Wed. 10/3.
- -Conceptual Quiz Monday, Newton's Laws.

Objectives:

- -Friction
- -Work and Energy



- A 2.0 kg block is given a push such that its initial velocity 6.0 m/s. It comes to a stop after traveling 9.0 m.
 - What is the object's acceleration?
 - What is the frictional force acting on block?
 - What is the coefficient of sliding friction?

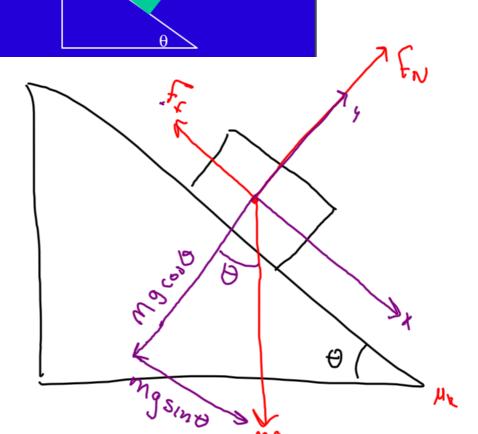
$$V_{c} = 6.0 \text{ m/s}$$

$$V_{c} = 6.0 \text{ m/s}$$

$$V_{c} = 0.0 \text{ m/s}$$

Lecture 2A 10-01-07 October 03, 2007

• A block slides down a wedge with coefficient of kinetic friction μ_k ? What is its acceleration? What if it is moving upward?



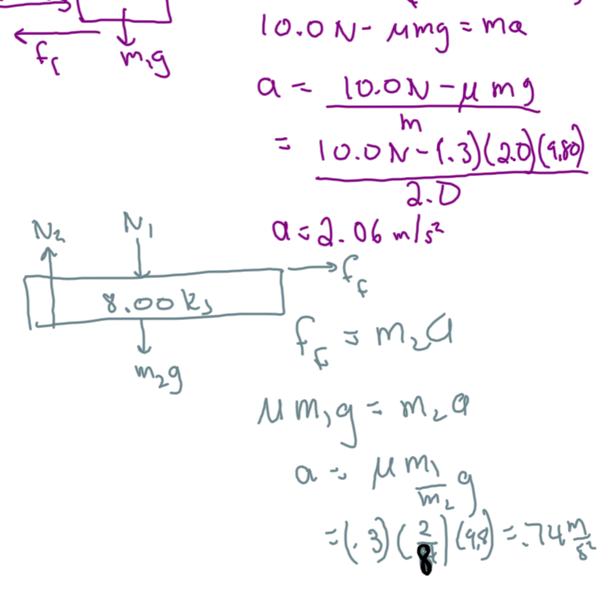
Sep 18-2:46 PM

U=-Mycoso+gsinto
How do we find Ms

O=-Msgcoso+gsinto
Ms coso = sinto
Ms = fano
Ms = fano

 A 2.0 kg block rests on the left edge of a 8.00 kg block. The value μ_k is 0.30 between the blocks. There is no friction between the table and the bottom block. What is the acceleration of the larger block? What about the top block?





Limitations of Newton's Laws Newton's 2nd law (F= ma) only valid in Frames that only valid in Frames that are moving at constant velocity