## **Reminders 9-17-07:**

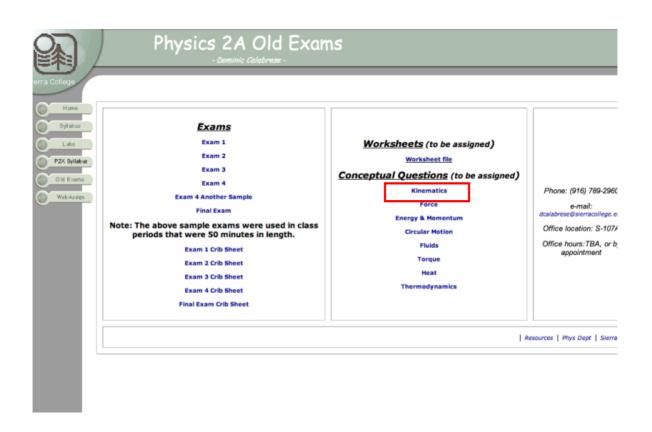
- -Next Homework Due 9/23!!!
- -Kinematics Conceptual Questions Due Wed. 9/19.
- Pick up graded papers in basket outside S-107A
- -Conceptual Quiz on 9/19 Chapter 2.
- -Exam 1 Mon. 9/24, Sect. 3.1,3.2,4.1,4.2, & Ch 2.
- -You must know exam policy.
- -Phi Theta Kappa Dr. Harry Hoopis
- -Save all files onto a USB Stick/Flash Drive.
- -Obtain software from desktop of computers in lab.

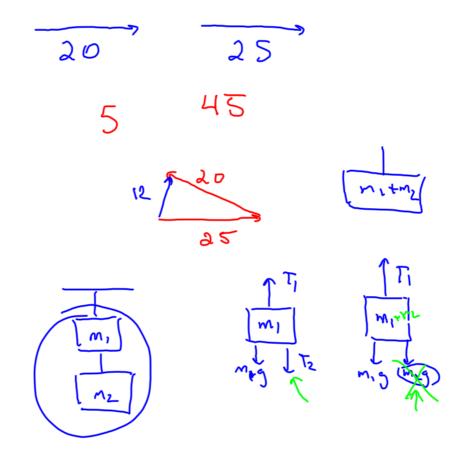
Objectives:

hhoupti @ sierracollege. edy

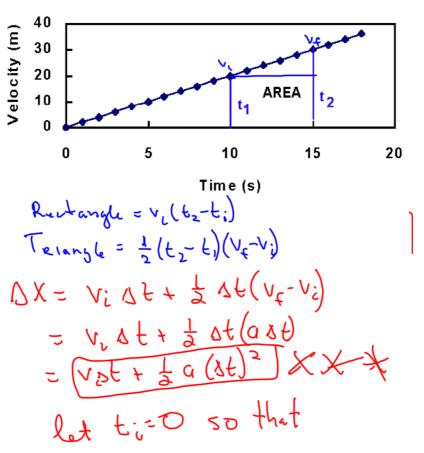
- -Motion at Constant Acceleration
- -Examples, Examples
- -Newton's Laws Revisited

Aug 26-10:24 PM

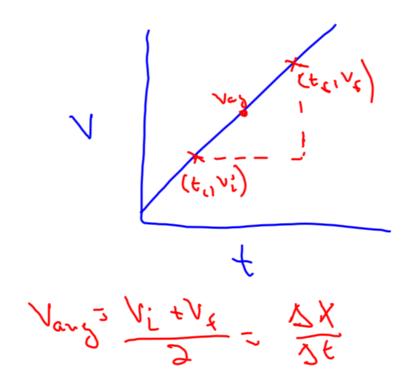




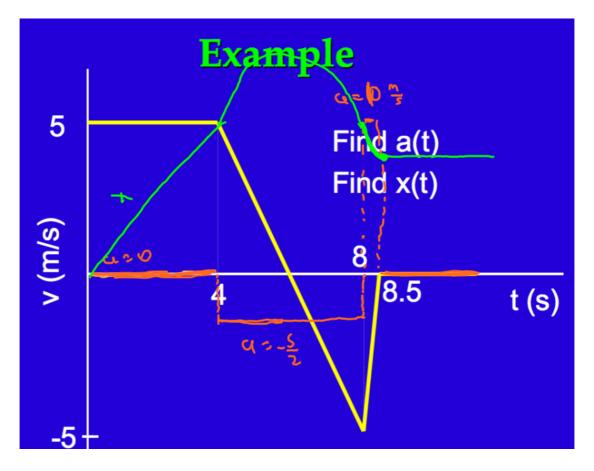
Sep 17-12:24 PM



Sep 12-1:33 PM



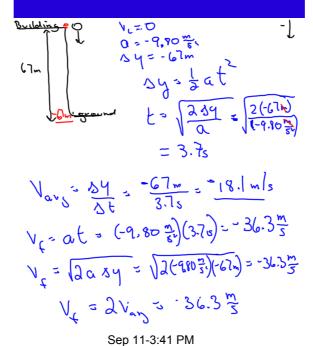
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Sep 11-3:41 PM

Схашри

- An object is dropped from a 67 m high building. Ignore air friction.
  - How long will it take to get to the ground?
  - What will the average velocity be from the top of the building to the bottom?

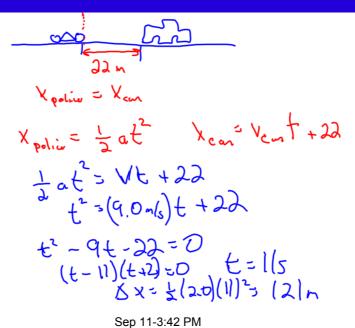


- An object is traveling at the rate of 25 m/s. It reaches a surface that slows it down. It comes to a complete stop after traveling 75 m.
  - What is the acceleration of the object?
  - How long does it take to come to a complete stop?
- Discuss alternative ways to solve the problem.

$$\frac{1}{\sqrt{1-25}} = \frac{1}{25} = \frac{1}$$

Sep 11-3:41 PM

A motorist drives along a straight road at a constant speed of 9.00m/s. When she is 22.0m in front of a parked motorcycle police officer, the officer starts to accelerate at 2.00m/s<sup>2</sup> to overtake her. Assuming the officer maintains this acceleration, determine the total displacement of the officer as he overtakes her.



A rock is thrown upward from a cliff. The initial velocity of the rock is 22 m/s. The cliff is 32 m above the surface  $\sigma$ 

- What is the velocity of the rock when it is 32 m above the ground while it's on the way down? Do you actually need to do a calculation?
- What are the acceleration and velocity of the rock at its highest point?
- What is the speed of the rock when it hits the water?
- How long does the rock take to hit the water?

