Name:	
Dariade	

HWUnit6:4 — Mr. Murray, IPC cstephenmurray.com

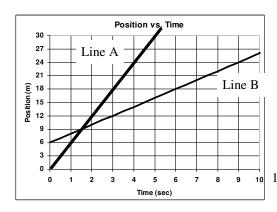
Assigned: Fri., 1/12 and Tues., 1/16 Due: Wed., 1/17 and Thurs., 1/18

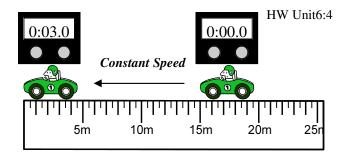
Remember: for ALL word problems you MUST follow all 4 steps: Assign Variables; Give the Formula; Put in Numbers and Solve: Give Answer with Units.

- 1. A car travels 60 mph for 3 hours. How far did the car go?
- 2. A 25 kg object is accelerating at 3 m/s². How big a force is acting on the object?

- 3. A car is going 20 m/s. How far does it travel each second?
- 4. If an object accelerates 5 m/s².
 - A. If it starts at rest, what is its velocity after 1 second?
 - B. What is its velocity after 2 seconds?
- 5. A car travels 10 m in 2 seconds. The car then accelerates for 5 seconds. After the acceleration it travels 90 m in 3 seconds. Find the acceleration of the car. (*Use the example at the bottom of the Acceleration notes.*)

- 6. Which Object starts farther away?
- 7. Which line reaches 24 m away first?
- 8. Where is Object A after 3 seconds?
- 9. Where is Object B after 3 seconds?
- 10. Which object is moving faster?
- 11. Find the slope of Object B.





- 12. What is the velocity of the above car? (show steps)
- 13. Where was the above car when the timer read 1 second? (Use the speed you found to figure this out).