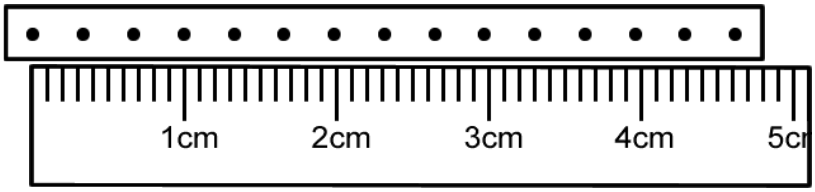
A-Day: due Mon 9/11 (Assigned Thurs., 9/7)
B-Day: due Tues 9/12 (Assigned Wed., 9/8)

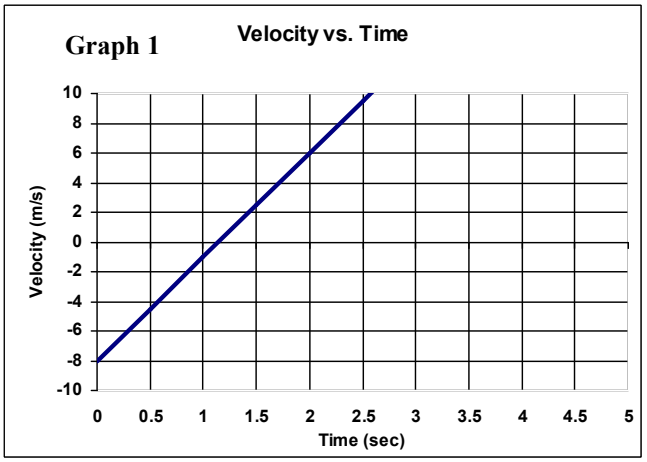
Measuring 9 **Mr. Murray's Regular Physics**



Use the tape timer to answer the following:
1) Does it show acceleration or constant velocity?
2) If each dot represents 0.1 seconds how much time is there between the first and last dot? (Don't count the first one.)

3) How much distance occurred on the tape between the first and last dot?

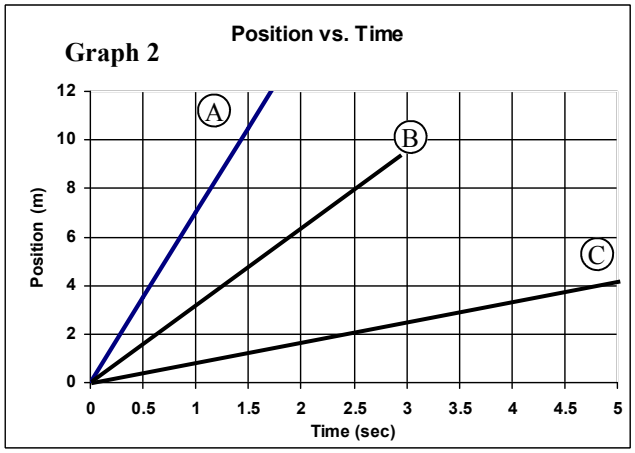
4) Find the speed of the tape.



5) Using Graph 1:
   A. What does the slope tell us on this graph?
   B. What would the area tell us?
   C. Find the slope of the graph (easier if done on the graph).

   D. What is the initial velocity of the object?
   E. Give the linear equation for this graph.

   F. How fast will the object be going 23 m/s?

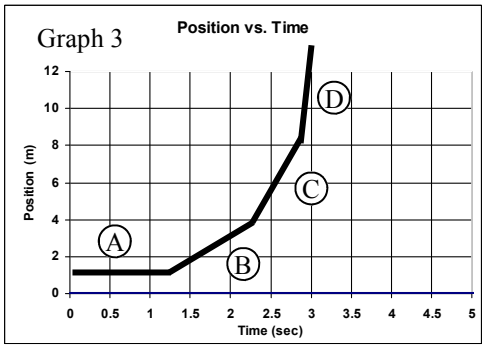


Use Graph 2 to answer questions 6-9.
6) Which line has the highest velocity?
7) Which line has the slowest velocity?
8) What does the y-intercept mean for this graph?
9) Draw a line on the graph that began at 10 meters and has a negative velocity (amount is irrelevant).

Use Graph 3 to answer questions
10) Which segment has the fastest velocity?
11) Which segment shows the object at rest?
12) Give the letters from slowest to fastest:
13) What is the object doing (use the information from the above answers)?

14) A car sits at a stop sign, then accelerates for 3 seconds. How far did it travel to reach 24 m/s?
   A) Write the variable list:

   B) What variable is not in your list above?
   C) What equation would you use to solve?
   D) Solve.



15) An object going –4 m/s ends up going 8 m/s in 15 meters. How much acceleration caused this?