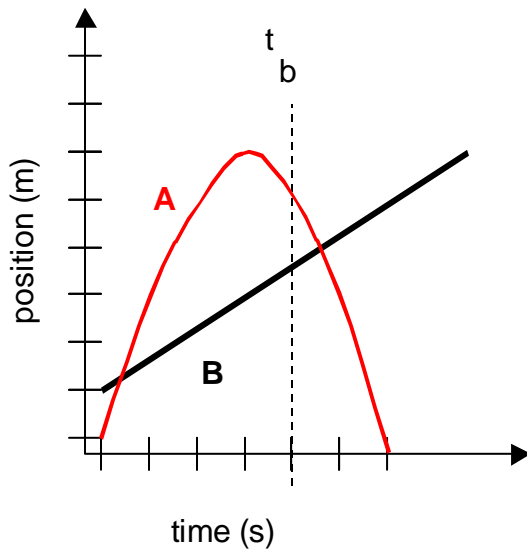


Homework 1:

Due by Tuesday, 01/26

Consider the following position (distance) vs. time graph of two objects moving in one dimension ONLY.



1. Mark on the graph with the label  $t_a$ , any instants at which one ball is passing the other.
2. Which ball has a larger velocity at time  $t_b$
3. Mark at any instants with  $t_c$  that the balls have the same velocity.
4. Mark with  $t_d$  any instants at which either of the balls has a zero velocity.
5. Describe the motion for both objects A and B for the period shown