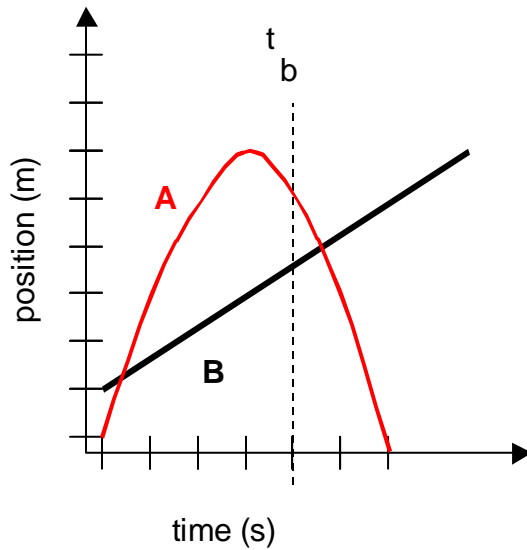


Homework 1:

Due by 5:30, Monday, 05/24

Consider the following position (distance) vs. time graph of two objects



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