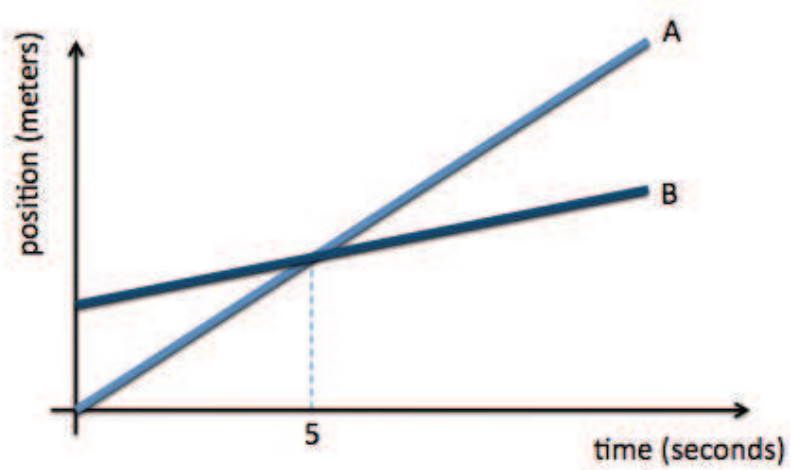
Mr. Goddard

NAME:_____

Period: _____DATE:_____

PHYSICS "Position vs Time" & "Velocity vs Time" In-Class Worksheet II

Consider the position vs time graph below that represents the motion of two bicyclists.



1. **Do the cyclists start at the same point? If not, which one starts ahead? How do you know?**

2. **At t = 7s, which cyclists is ahead? How do you know?**

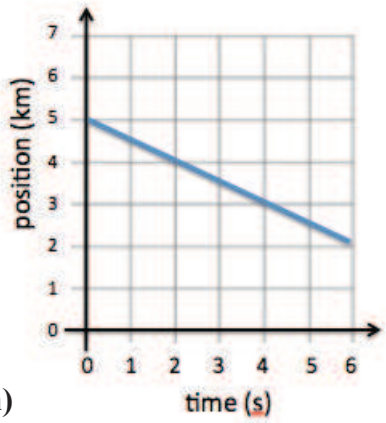
3. **Which cyclist is faster at t = 3s? How do you know**

4. **Are their velocities equal at any time? How do you know?**

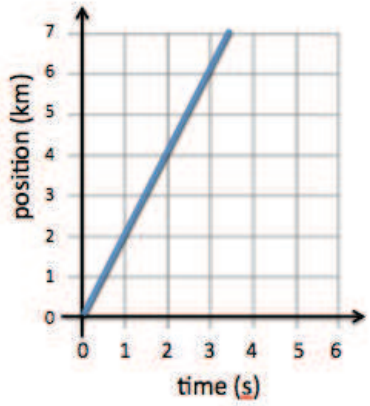
5. **What is happening at the intersection of lines A and B?**

Determine the average velocity of the objects in the following position vs time graphs.

6. **What is the velocity of the object? (Include a direction)**

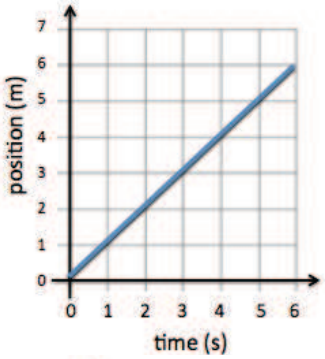


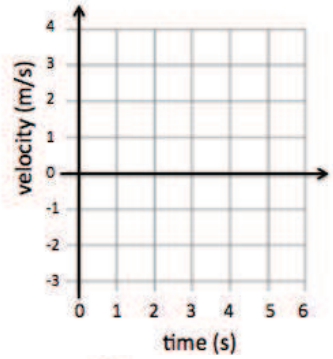
7. **What is the velocity of the object? (Include a direction)**



Draw the velocity vs time graph for an object whose motion is shown in the position vs time graphs shown below.

8.





9.