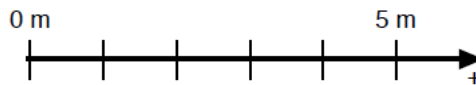
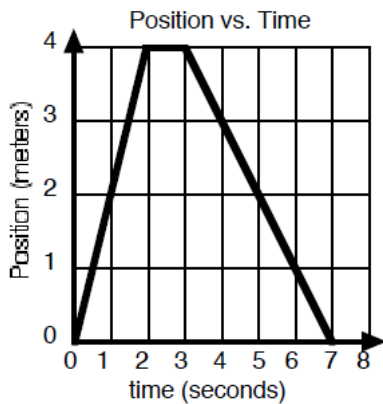
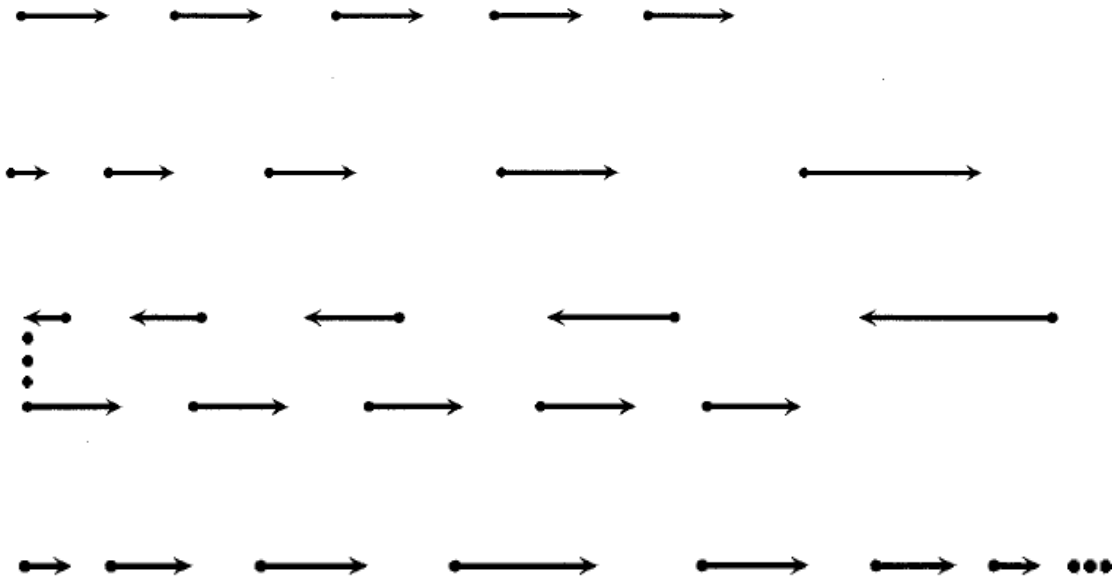
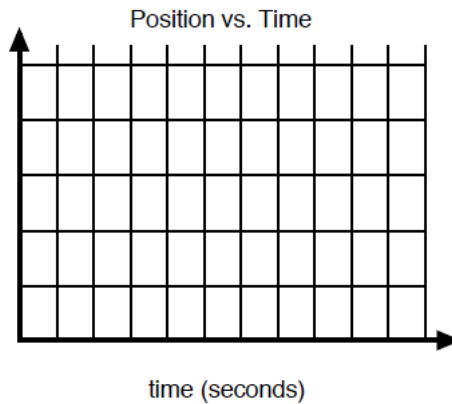
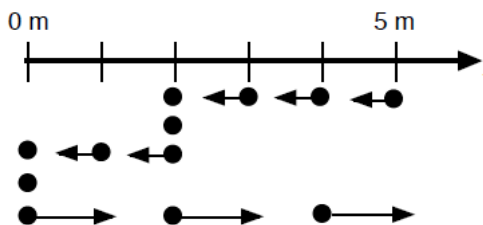


# MOTION MAPS & POSITION VS. TIME GRAPHS

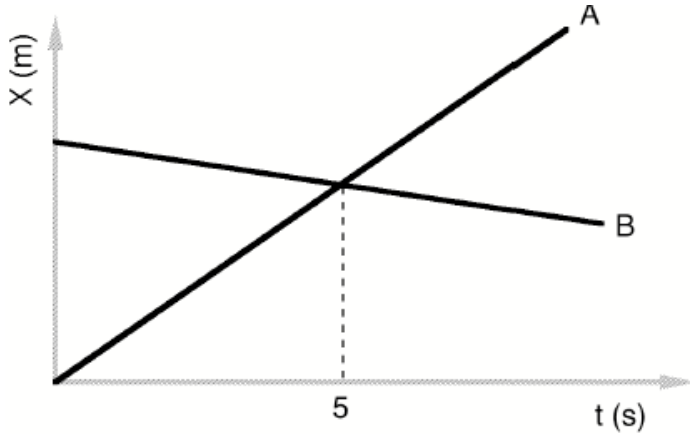


Create a motion map from the position vs. time graph to the left.



Create position vs. time graph based on the motion map to the left.

# MOTION MAPS & POSITION VS. TIME GRAPHS



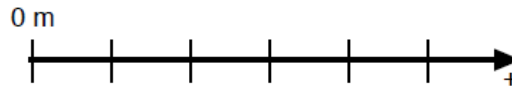
Do the cyclists start at the same point? How do you know? If not, which is ahead?

Which cyclist is traveling faster at 3s? How do you know?

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

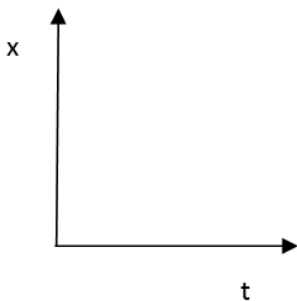
What is happening at the intersection of lines A and B?

Draw a motion map for cyclists A and B.



Draw lines on the following position vs. time graphs that show a

**Positive Slope**



**Negative Slope**

