

AP PHYSICS UNIT I WS 1: Kinematics Part 1 Constant Velocity

1. Consider the position vs. time graph below for cyclists A and B.



- a. Do the cyclists start at the same point? How do you know? If not, which is ahead?
 no, the cyclists do not start at the same point. one starts at 0, while the other starts at 5. Cyclist B is ahead (different y intercept)
- b. At $t = 7$ s, which cyclist is ahead? How do you know?
 Cyclist A. because their data is higher
- c. Which cyclist is traveling faster at 3s? How do you know?
 Cyclist A.
 Slope
- d. Are their velocities equal at any time? How do you know?
 yes, at 5 seconds.
 the lines cross.
- e. What is happening at the intersection of lines A and B?
 they are traveling at the same speed at the same time (5 seconds)

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