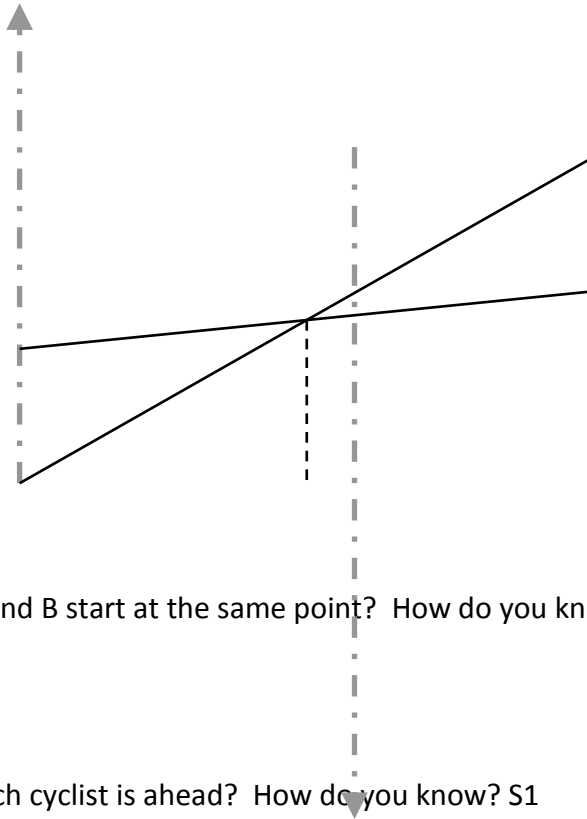


Velocity Homework 1

Name: _____

Hour: _____ Date: _____

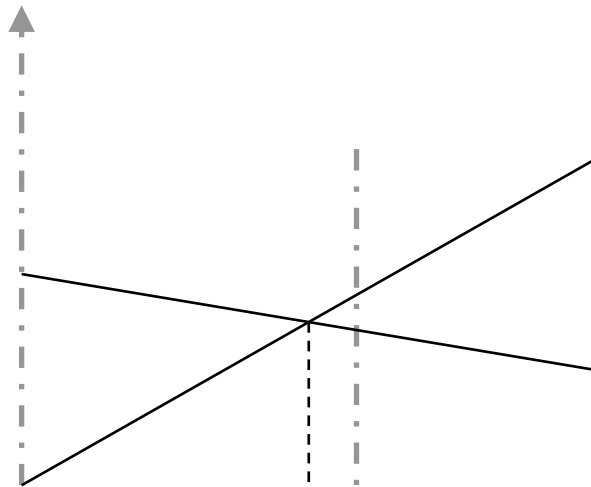
1. Consider the position vs. time graph below for cyclists A and B.



- a. Do cyclists A and B start at the same point? How do you know? If not which is ahead? S4
- b. At $t = 7$ s, which cyclist is ahead? How do you know? S1
- c. Which cyclist is traveling faster at 3 s? How do you know? S3
- d. Are their velocities equal at any time? How do you know? S3
- e. What is happening at the intersection of lines A and B? S1

Velocity Homework 1

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



- How does the motion of cyclist A compare to that of cyclist B in the previous graph on page 1? S2
- Which cyclist above has the greater speed? How do you know? S3
- Describe what is happening at the intersection of A and B. S1
- Which cyclist has traveled further during the first 5 seconds? How do you know? S2