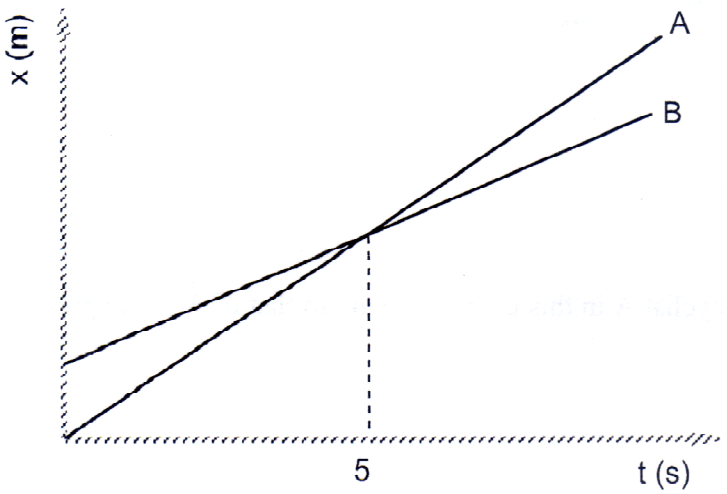
Name_____

Date_____Pd____

UNIT II Worksheet 1

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?

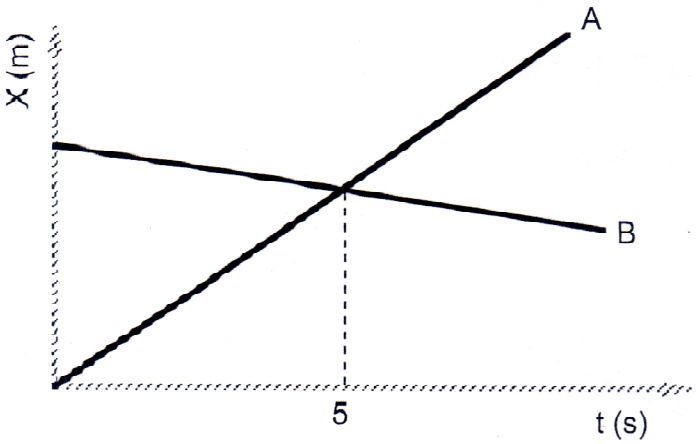
b. At t= 7s, which cyclist is ahead? How do you know?

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

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

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

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



a. How does the motion of the cyclist A in this graph compare to that of A in the previous graph on page one?

b. How does the motion of cyclist B in this graph compare to that of B in the previous graph on page one?

c. Which cyclist has the greater speed? How do you know?

d. Describe what is happening at the intersection of lines A and B.

e. Which cyclist traveled a greater distance during the first 5 seconds? How do you know?