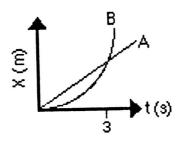
Linear Motion Graphs WS 1

NAME:

Using the graph below, compare the kinematic behavior of the two objects.



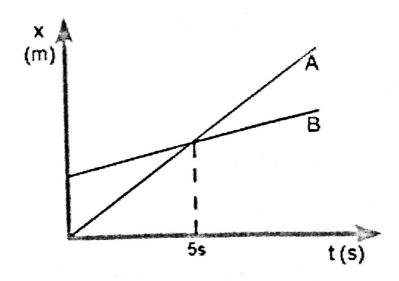
Comparison:

is A > B, A < B, or A = B,

How do you know?

- a. Displacement at 3 s AZB
- b. Average velocity from 0 3 s ArB
- c. Instantaneous velocity at 3 s BTA OF ATB

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

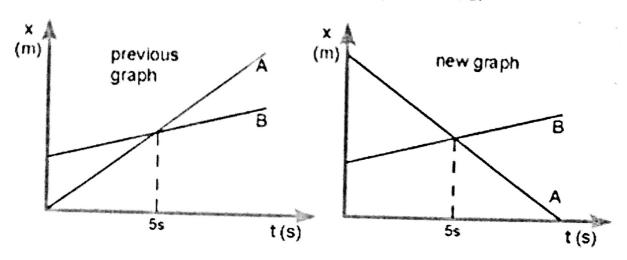


- a. Do the cyclists start at the same point? How do you know? If not, which is ahead?
- b. At t= 7s, which cyclist is ahead? How do you know?
- c. Which cyclist is travelling faster at t = 3s? How do you know?

A

Linear Motion Graphs WS 1

- d. Are their velocities equal at any time? How do you know?
- e. What is happening at the intersection of lines A and B? At Bate in the same purity many and or A paccec a
- 2. Consider the new position vs. time graph below for cyclists A and B.



a. How does the motion of the cyclist A in the new graph compare to that of A in the previous graph from page one? While A warm of the cyclist A in the new graph compare to that of A in the previous

now he she is moving toward the neg (moving left)

A is moving in the opposite direction

- b. How does the motion of cyclist B in the new graph compare to that of B in the previous graph?

 Wo difference
- 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?