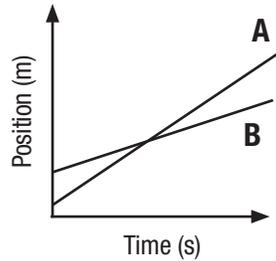


**Work each of the following problems. SHOW ALL WORK.**

1. Which object is moving faster in the graph below? Justify your answer.

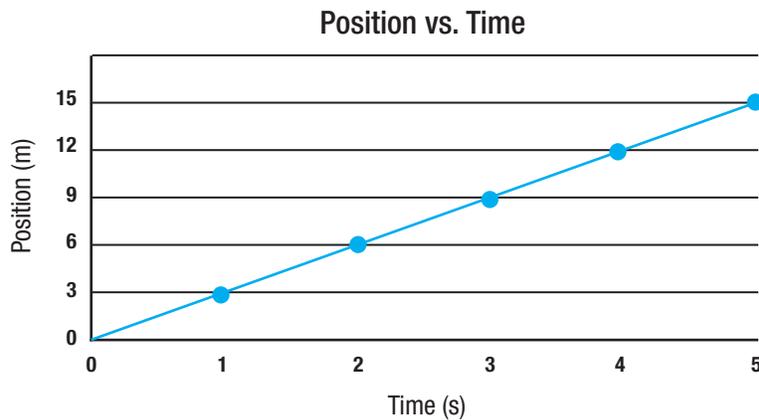



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2. Using the graph provided, determine the average velocity of the object.



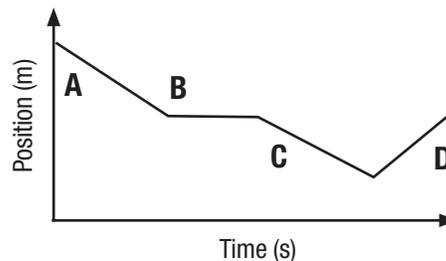

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3. Describe the object's velocity for each segment of the position versus time graph below. State the direction of motion (positive or negative), and describe the speed (constant, increasing, or decreasing) or state if the object is at rest.

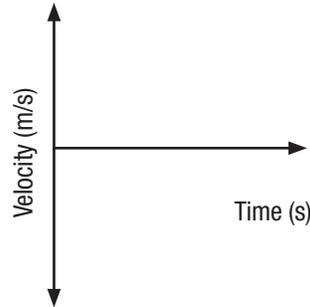
- A: \_\_\_\_\_
- B: \_\_\_\_\_
- C: \_\_\_\_\_
- D: \_\_\_\_\_



questions continued on next page

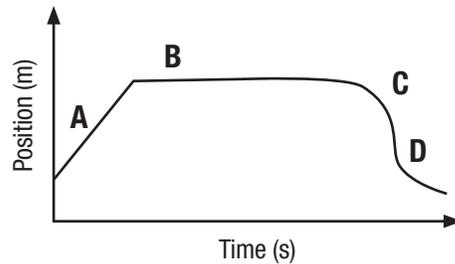
**Work each of the following problems. SHOW ALL WORK.**

4. Create and label the corresponding velocity versus time graph for the position versus time graph in the previous question.

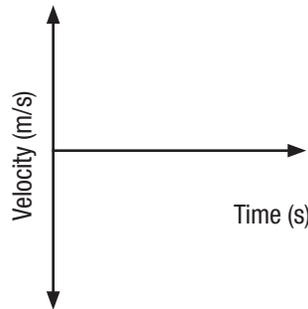


5. Describe the object's velocity for each segment of the position versus time graph below. State the direction of motion (positive or negative), and describe the speed (constant, increasing, or decreasing) or state if the object is at rest.

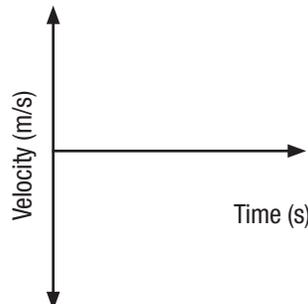
- A: \_\_\_\_\_  
 B: \_\_\_\_\_  
 C: \_\_\_\_\_  
 D: \_\_\_\_\_



6. Create and label the corresponding velocity versus time graph for the position versus time graph in the previous question.

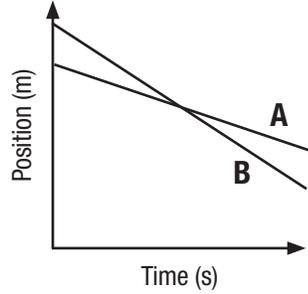


7. Create and label the corresponding acceleration versus time graph for the velocity versus time graph in the previous question.



**Work each of the following problems. SHOW ALL WORK.**

8. Which object has a greater magnitude of acceleration? Justify your answer.

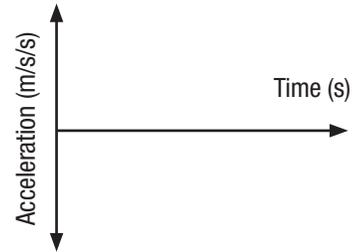
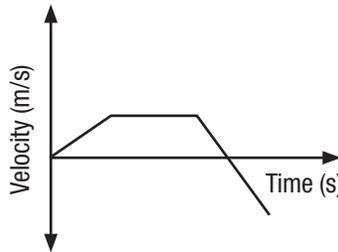
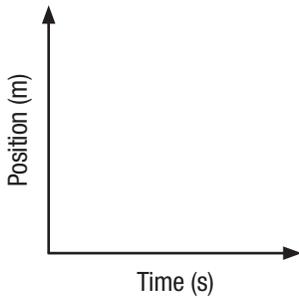



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9. Complete the other two graphs based on the one provided:



10. Complete the other two graphs based on the one provided:

