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

![Graph](image_url)

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

![Graph](image_url)

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

![Position vs. Time Graph](image1)

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

![Position vs. Time Graph](image2)

![Velocity vs. Time Graph](image3)

![Acceleration vs. Time Graph](image4)

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

![Position vs. Time Graph](image5)

![Velocity vs. Time Graph](image6)

![Acceleration vs. Time Graph](image7)