

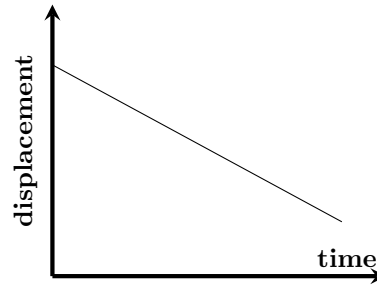
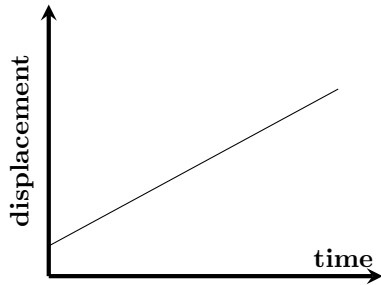
Name: \_\_\_\_\_

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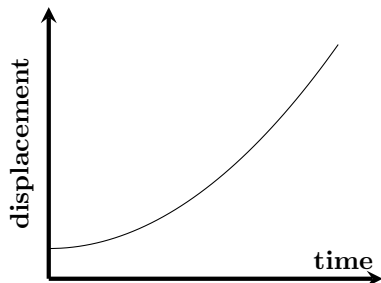
Period: \_\_\_\_\_

## Motion #5

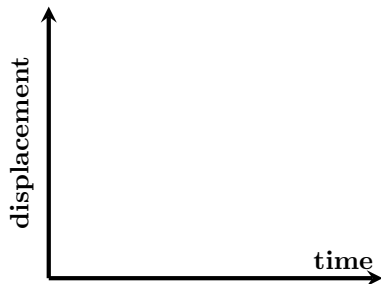
1. One of the following objects is moving forward. The other is moving backward. Which is which? Explain!!



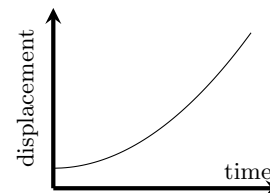
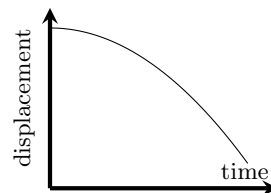
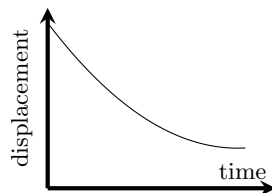
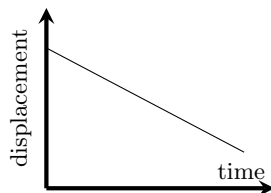
2. We found out in the lab that the slope of the displacement graph gives you the velocity. Use the concept of slope to explain why this object is speeding up.



3. Sketch the graph of an object that is moving forward and slowing down. Explain!!



4. For each of the following graphs, it is sufficient to simply say whether the object is moving **forward** or **backward** and whether it is **speeding up**, **slowing down**, or **maintaining a constant speed**.

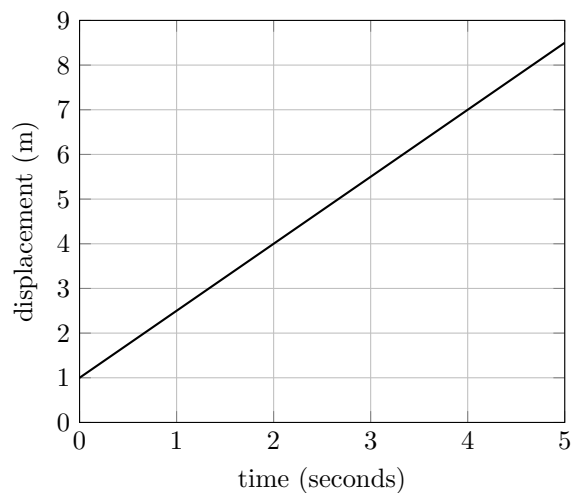


Name: \_\_\_\_\_

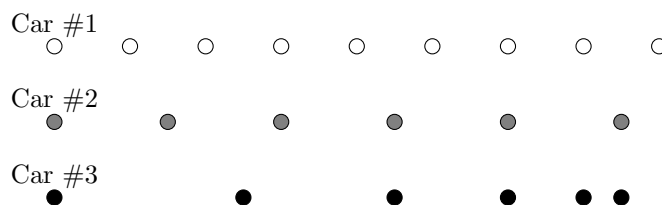
Date: \_\_\_\_\_

Period: \_\_\_\_\_

5. A graph of the motion of a tram at the airport is shown below. What is the tram's velocity?



6. Consider the motion maps of the cars below. All of the cars are moving forward.



- (a) Compare and contrast the motion of Cars #1 and #2.

- (b) What is happening to Car #3?

- (c) Sketch graphs of the motion of each of the cars.

