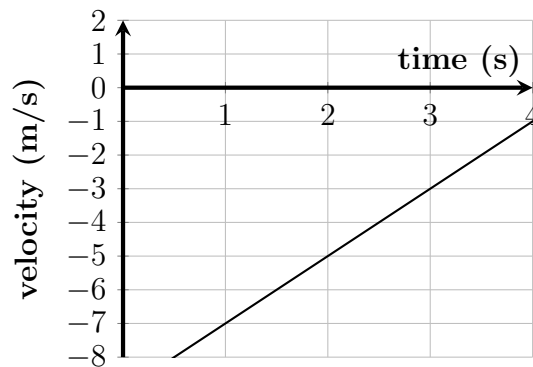


Motion #5

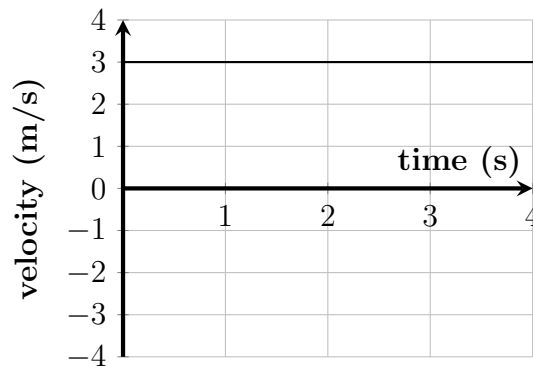
1. For each of the following graphs, answer the accompanying questions.

(a) Consider this graph and answer the questions



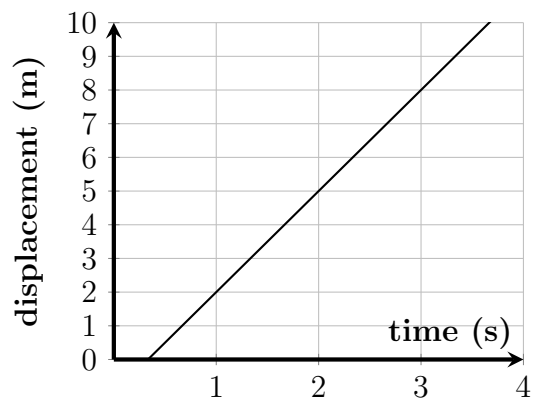
- The object is moving
☐ forward ☐ backward
- The object is
☐ speeding up ☐ slowing down
☐ moving at a constant speed
- Calculate the velocity (if possible).
- Calculate the acceleration.

(b) Consider this graph and answer the questions



- The object is moving
☐ forward ☐ backward
- The object is
☐ speeding up ☐ slowing down
☐ moving at a constant speed
- Calculate the velocity (if possible).
- Calculate the acceleration.

(c) Be careful! This is a *displacement* graph.



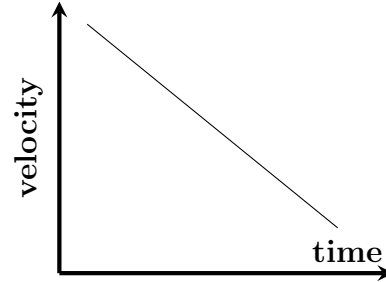
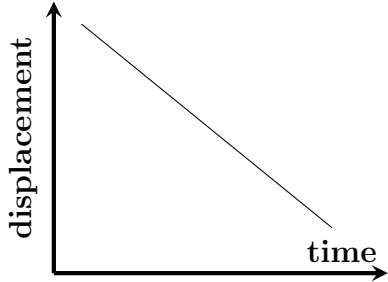
- The object is moving
☐ forward ☐ backward
- The object is
☐ speeding up ☐ slowing down
☐ moving at a constant speed
- Calculate the velocity (if possible).
- Calculate the acceleration.

Name: _____

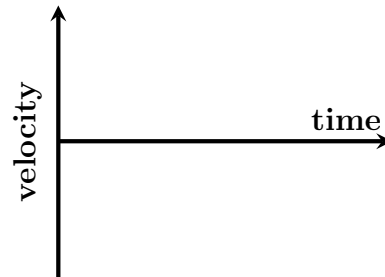
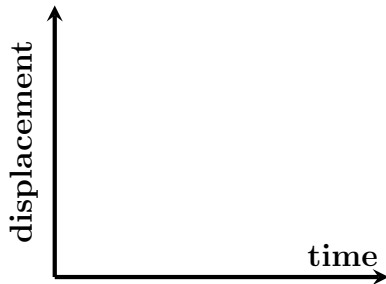
Number: _____

Date: _____

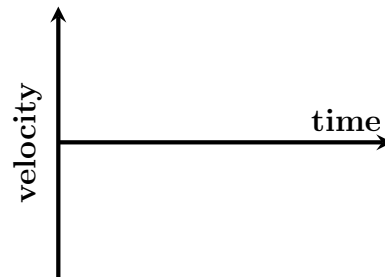
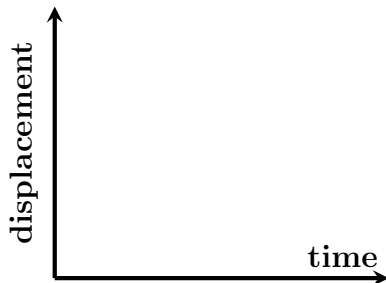
2. What is the difference between the motion of these two objects?



3. Draw the position and velocity graphs for each of the following situations
- (a) Going backward at a constant speed.



- (b) Going forward and speeding up.



- (c) Going backward and speeding up.

