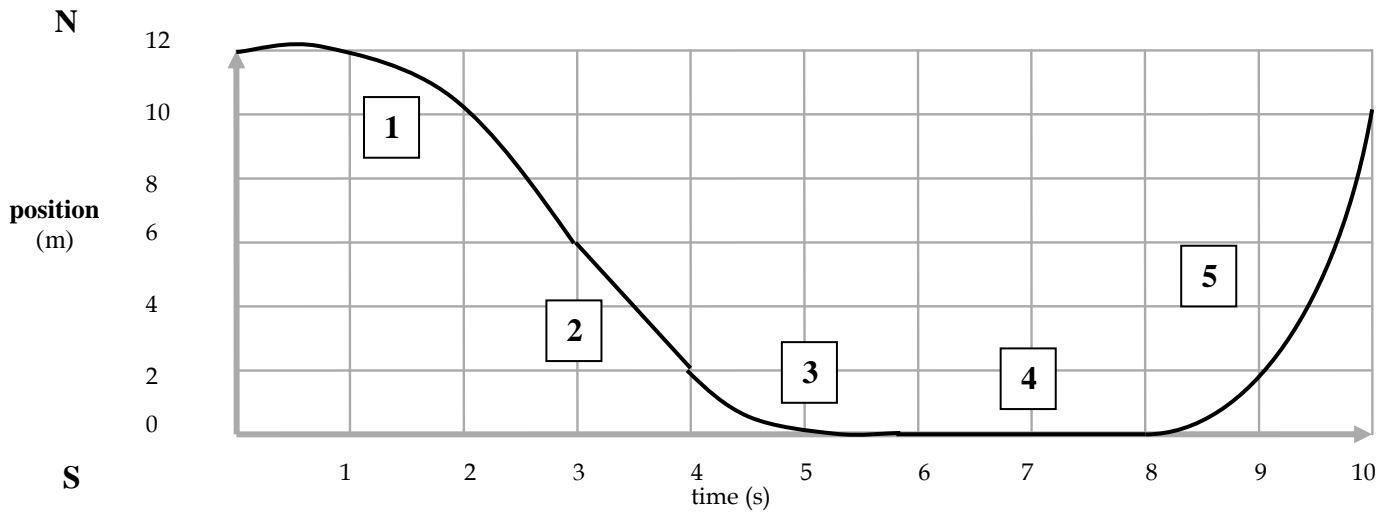
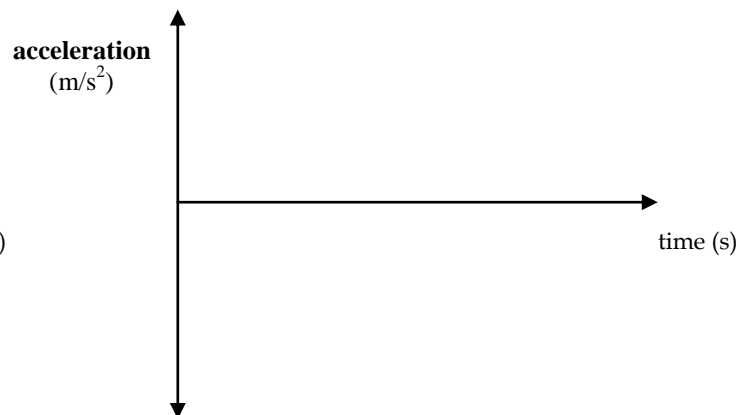


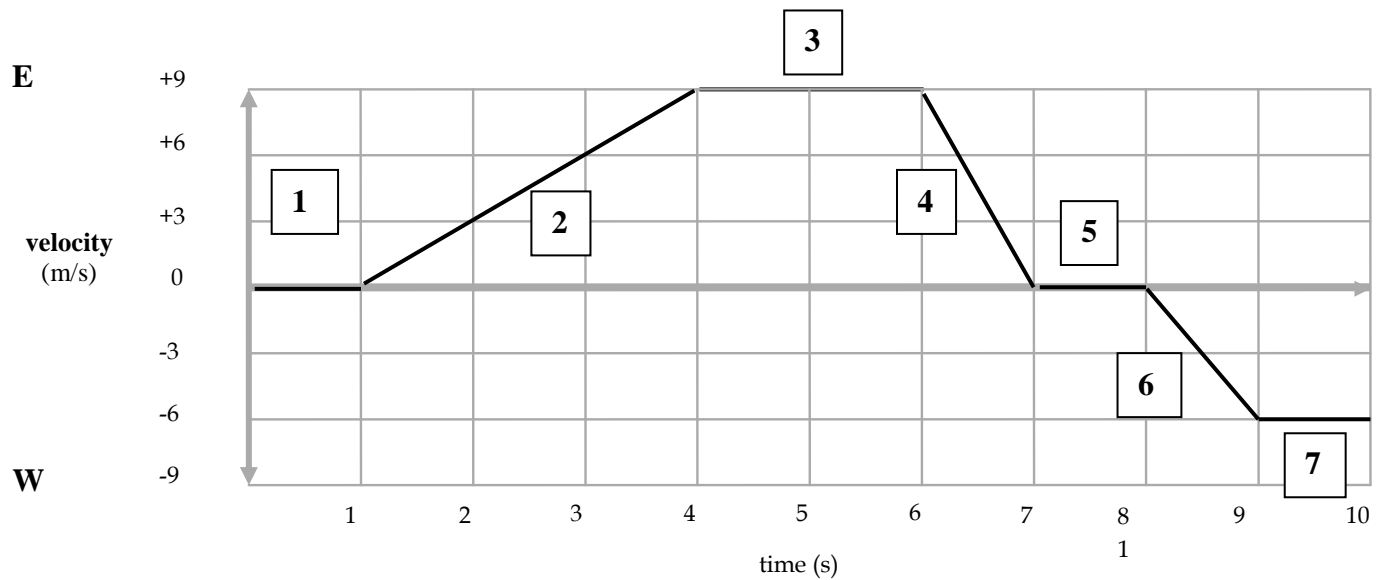
Use the **position vs. time** graph below to answer the questions that follow.



- Describe the motion of the object during each interval.
- What is the position at 3 seconds?
- What is the average velocity of the object from 3 s to 4 s?
- What is the average velocity of the object from 6 s to 8 s?
- What is the average velocity for the entire 10 second interval of the graph?
- What is the average speed for the entire 10 second interval of the graph?
- Draw the v vs. t and a vs. t graphs that correspond to the above position vs. time graph.



Use the **velocity vs. time** graph below to answer the questions that follow.



- Describe the motion of the object during each interval.
- What is the instantaneous velocity at 2 seconds?
- How far did the object travel during 1 s to 7 s?
- How far did the object travel during 8 s to 10 s?
- During what interval(s) did it move with a constant velocity?
- What was/were the velocity/velocities while it moved at a constant velocity?
- Determine the magnitude and direction (sign) of the acceleration for all periods when the object accelerated.
- Draw the  $x$  vs.  $t$  and  $a$  vs.  $t$  graphs that correspond to the above velocity vs. time graph.

