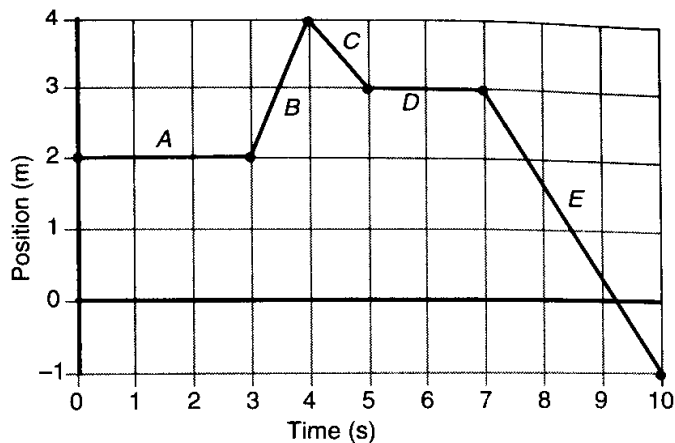


d-t, v-t and a-t Graph Practice

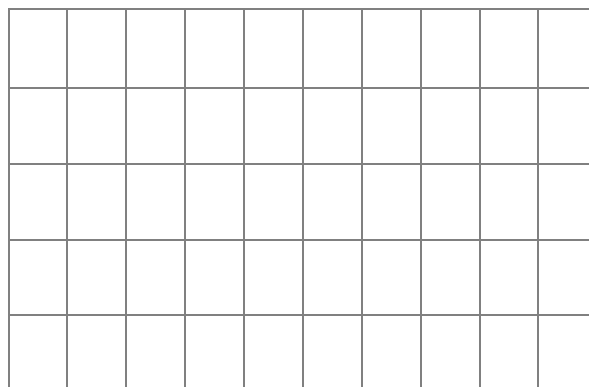
This question is about a moving object. The graph shows the position of an object moving along a straight line over a 10 second interval.



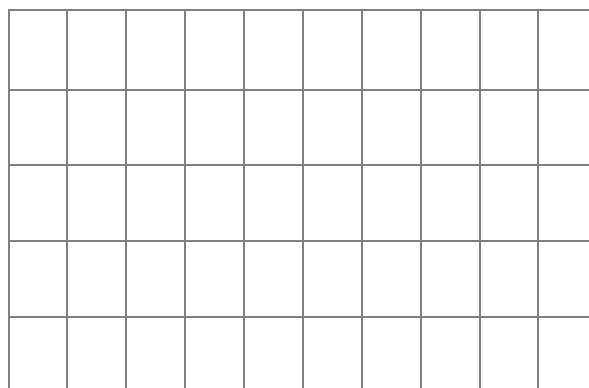
- 1) Fill in the following table with values of the displacement s and velocity v over each section of the graph (show all work on a separate sheet of paper as necessary):

	A	B	C	D	E
s					
v					

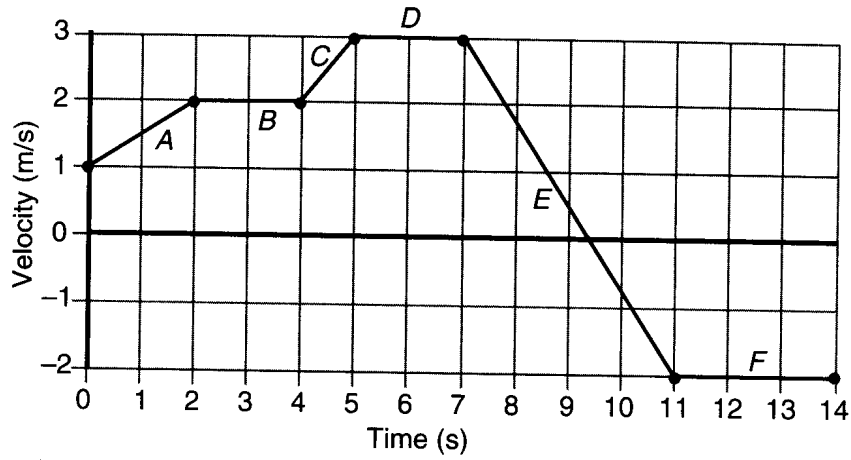
- 2) What is the displacement over the entire trip (0-10 seconds)?
- 3) What is the average velocity over the entire trip (0-10 seconds)?
- 4) On the axes to the right, construct a v-t graph of the object's motion:



- 5) On the axes to the right, construct an a-t graph of the object's motion:

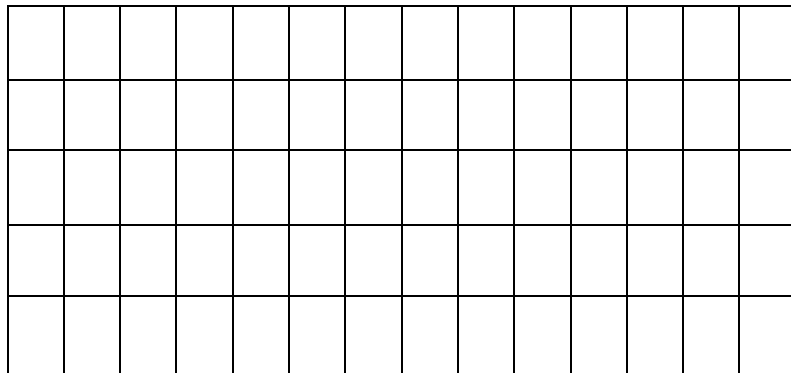


The graph below illustrates the velocity of an object as a function of time.



1. What is the average velocity within each section of the graph?
2. What is the acceleration within each section of the graph?
3. When does the object come to rest?
4. When does the object reverse the direction of its motion?
5. What is the displacement within each section of the graph?
6. What is the displacement over the entire trip (0–14 seconds)?
7. What is the average velocity over the entire trip (0–14 seconds)?
8. What is the shape of the corresponding *acceleration versus time* graph?

9. Sketch an AT graph for this object's motion:



10. Sketch a DT graph for this object's motion:

