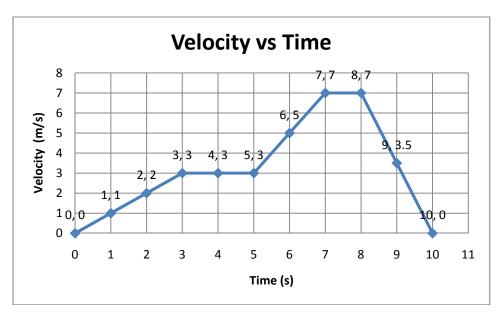
Name:	Date:		
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Graphical Interpretation of Instantaneous and Average Acceleration

Explain what happens in each of these graphs. Make sure to record the change in displacement, change in velocity, and acceleration for each time interval.

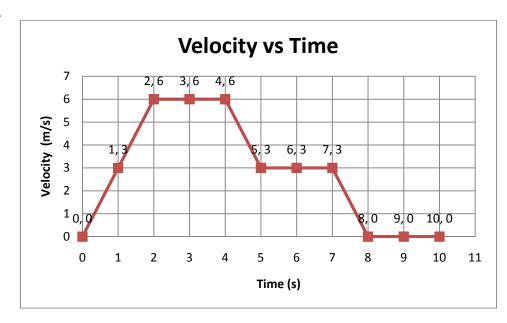
1.



Solve for the missing blocks:

Time	0 to 3 seconds	3 to 5 seconds	5 to 7 seconds	7 to 8 seconds	8-10 seconds
Velocity					
Average Acceleration					

2.

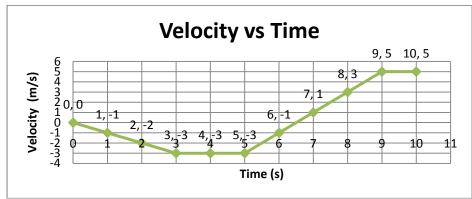


Solve for the missing blocks:

Time	0 to 2 seconds	2 to 4 seconds	4 to 5 seconds	5 to 7 seconds	7-8 seconds
Velocity					
Average Acceleration					
Amount Displaced					
During Time Interval					

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3.



What is the total displacement of the object?

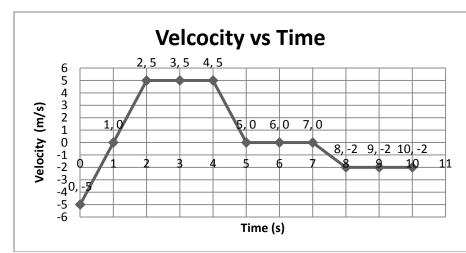
Where is the greatest Acceleration?

Where is the acceleration zero? _____

What is the average acceleration between 1 and 7 seconds?

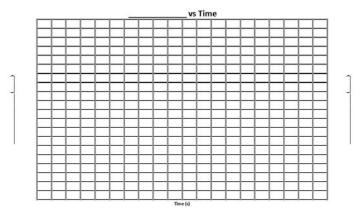
What is the instantaneous acceleration at 8 seconds?

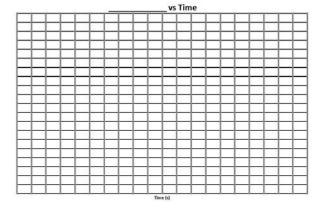
4.

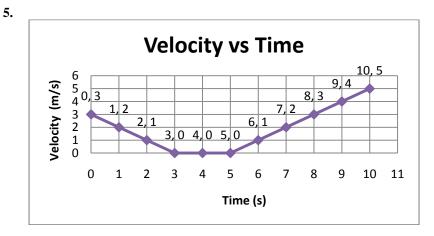


Sketch the displacement graph

Sketch the acceleration graph.

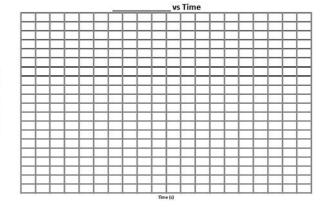


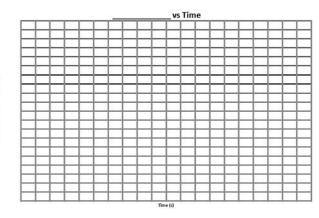




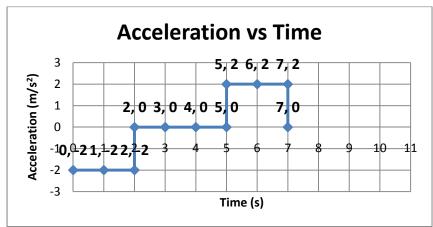
Sketch the displacement graph

Sketch the acceleration graph.





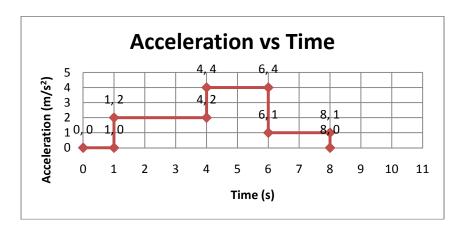
6.



Solve for the missing blocks:

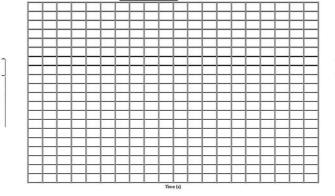
Time	0 to 2 seconds	2 to 5 seconds	5 to 7 seconds	0 to 7 seconds
Acceleration				
Final Velocity				

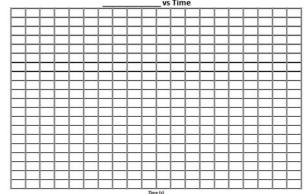
7.



Sketch the velocity graph

Sketch the displacement graph.

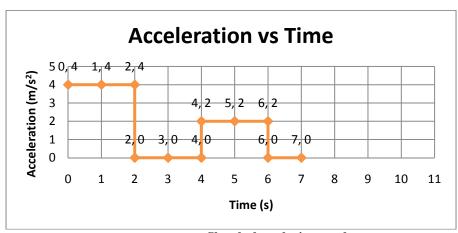




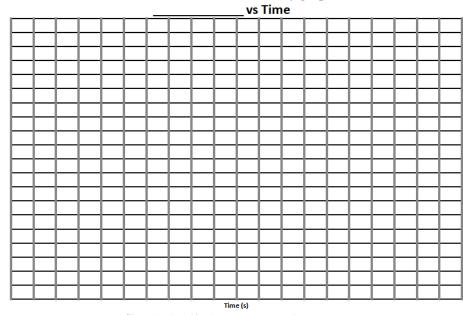
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Date:_____ Chapter 2: One Dimensional Motion

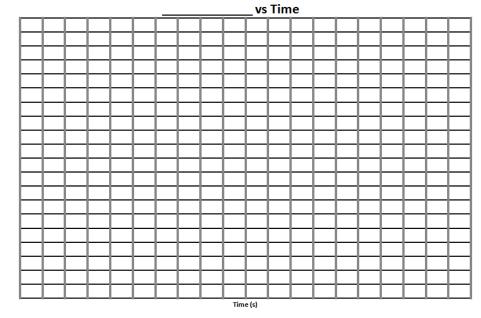
8.



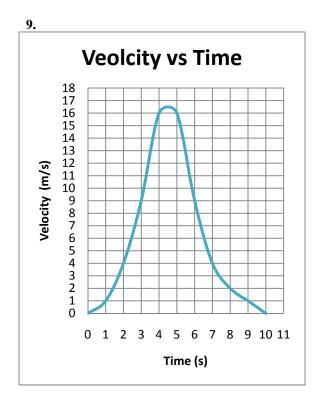
Sketch the velocity graph



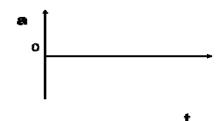
Sketch the displacement graph.



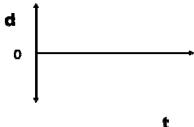
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- What is the approximate displacement for this object?
- What is the instantaneous acceleration at t=3?
- What is the instantaneous acceleration at t=4.5?
- Draw a rough sketch of the acceleration vs time graph that goes with this?

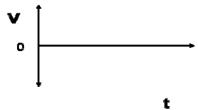


• What would the displacement vs time graph look like? Sketch a rough copy of it

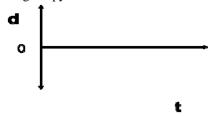


10.

- What is the approximate final velocity for this object?
- What is the instantaneous acceleration at t=4?
- What is the instantaneous acceleration at t=6?
- Draw a rough sketch of the velocity vs time graph that goes with this?



• What would the displacement vs time graph look like? Sketch a rough copy of it.



7. Is a fine for speeding based on one's average speed or instantaneous speed?