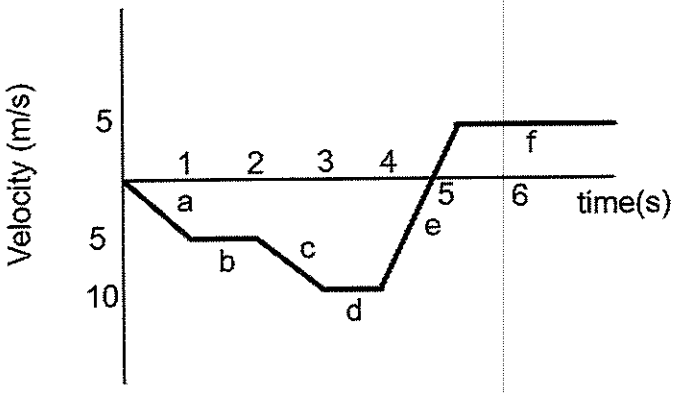
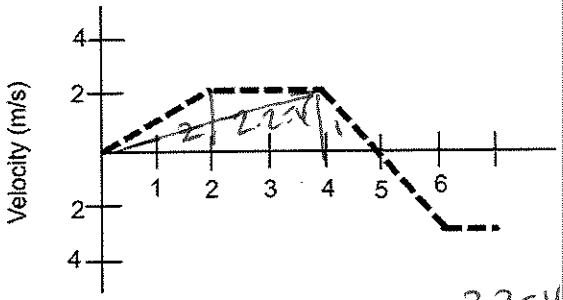
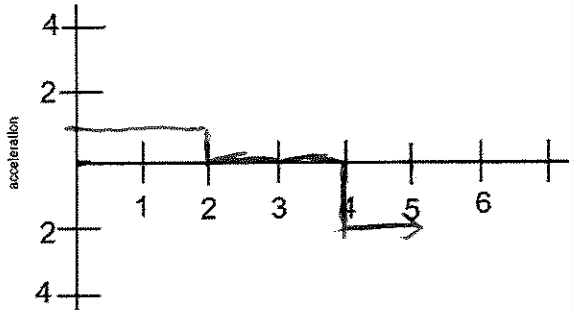
Velocity - Time graph
Class Practice



1. At what point does the object turn around? e
2. At what point is the object the farthest west(negative)? d
3. At what point does the object return home? NONE
4. At what point does the object have a -v and +a? e
5. At what point does the object have -v and -a? a, c
6. At what point is the object traveling to the right with a zero acceleration? f
7. Does this ever stop having a zero acceleration? NO
8. How would you compare the acceleration of section a and c? Same
9. True or false: The acceleration is zero at 5 seconds? NO, Slope = a
10. This object ends up having a net displacement to the east (right). Explain
NO, West area under curve



11. Calculate the net displacement at 5 seconds. 2·2=4/2=2 +4+1=7
12. Student hypothesis: The object returns to its starting location at 5 seconds. NO, 7m east
13. Calculate the average acceleration at 4 seconds. See Eire above & 2/4 = 1/2 m/s²
14. Graph the acceleration verses time for the first 5 seconds below.



t	a
1-2	1
2-4	0
4-5	-2