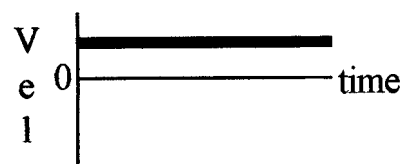


Chapter 2 Quiz Velocity - Time Graphs A Name _____

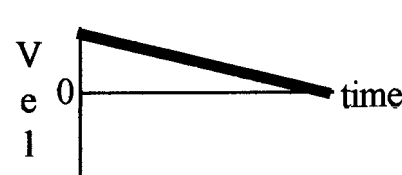
1. How do you move to create a horizontal line in the positive part of a velocity-time graph at the right? (2)



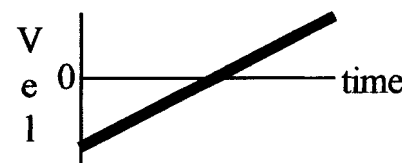
2. How do you move to create a straight-line velocity-time graph that slopes upward as shown at the right? (2)



3. How do you move to create a straight-line velocity-time graph that slopes downward as shown at the right? (2)



4. How do you move to create a straight-line velocity time graph that slopes upward as shown at the right? (2)



5. The velocity-time graph of the movement of an object is shown at the right. (4)

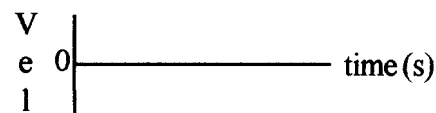
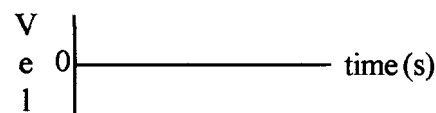
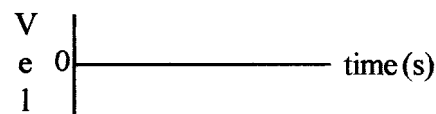
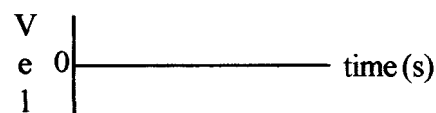
The distance traveled is _____.

The displacement is _____.



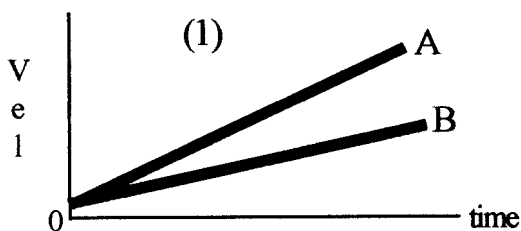
Sketch v-t graphs corresponding to:

6. Object moving away from the origin at constant speed. (1)
7. The object is accelerating in a positive direction. (1)
8. The object moves toward the origin at a constant speed for 1/4th the time, stands still for 1/4th the time and then moves away at constant speed in the remaining time. (2)
9. The object moves toward the origin at a constant velocity for half the time, reverses direction and moves away from the origin at the same speed in the other half. (2)

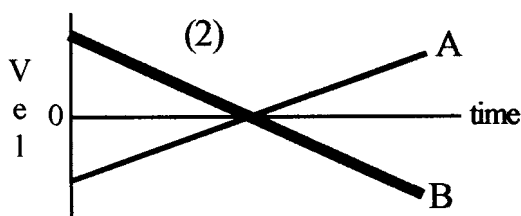


10. Both of the velocity graphs below, 1 and 2, show the motion of two objects, A and B. Answer the following questions separately for graph 1 and graph 2. (8)

- Is one acceleration greater than the other one? If so, which is greater, A or B?
- What does the intersection where the two graphs intersect with each other indicate?
- Which object is ahead? Explain why.
- Does either object, A or B, reverse direction? Explain



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11. Draw careful graphs below of distance-time and velocity for a car that: (10)

- moves away from the origin to the 2 meter mark at a slow, constant speed for the first 5 seconds.
- moves away at a medium-fast, constant speed of 0.8 m/s for the next 5 seconds.
- moves toward the origin at a slow, constant speed of 0.5 m/s for the next 5 seconds.
- stands still for the next 3 seconds.
- moves toward the origin at a slow, constant speed of 0.5 m/s for the next 5 seconds.

