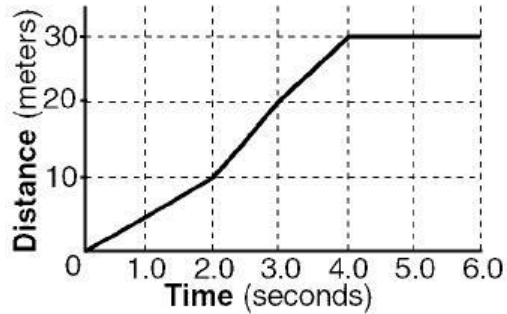
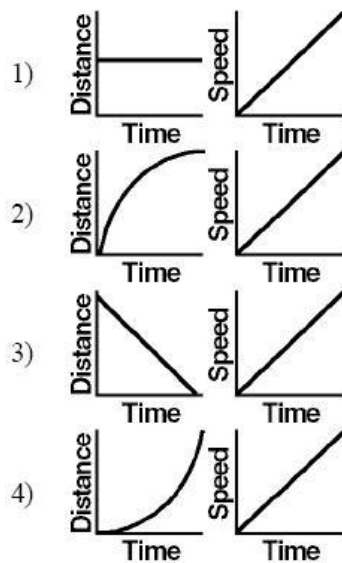


CW 1.1 - Graphing Motion Multiple Choice

1. The distance-time graph below represents the position of an object moving in a straight line. What is the speed of the object during the time interval $t = 2.0$ seconds to $t = 4.0$ seconds?

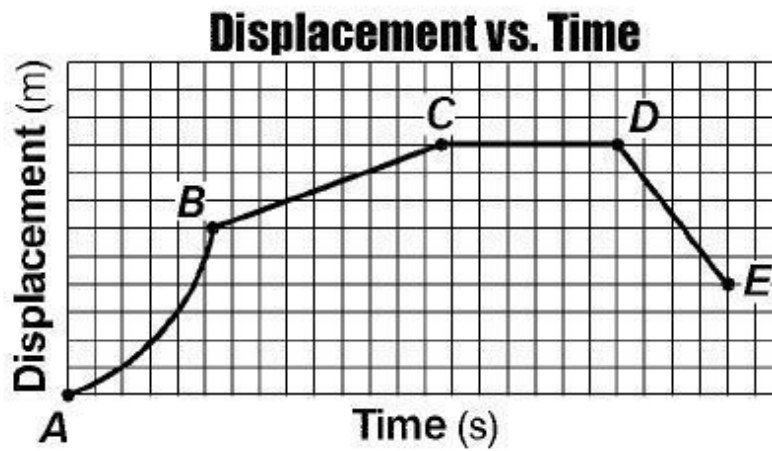


- A. 10. m/s
B. 5.0 m/s
C. 0.0 m/s
D. 7.5 m/s
2. Which pair of graphs represents the same motion?

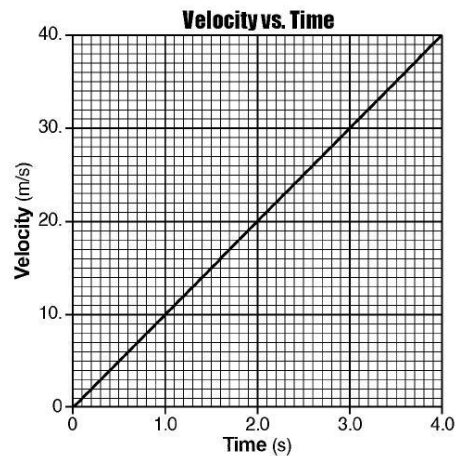


- A. 1
B. 2
C. 3
D. 4

3. The displacement-time graph below represents the motion of a cart initially moving forward along a straight line. During which interval is the cart moving forward at constant speed.

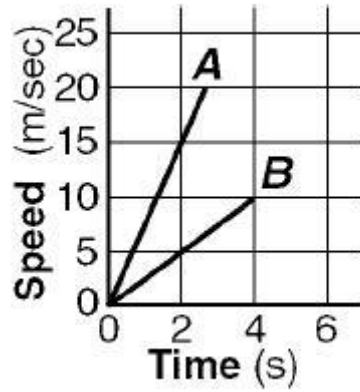


- A. AB
B. CD
C. BC
D. DE
4. The graph below shows the velocity of a race car moving along a straight line as a function of time. What is the magnitude of the displacement of the car from $t = 2.0$ seconds to $t = 4.0$ seconds?

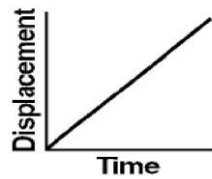


- A. 80. m
B. 20. m
C. 60. m
D. 40. m

5. The graph below shows the relationship between speed and time for two objects, A and B. Compared with the acceleration of object B, the acceleration of object A is:

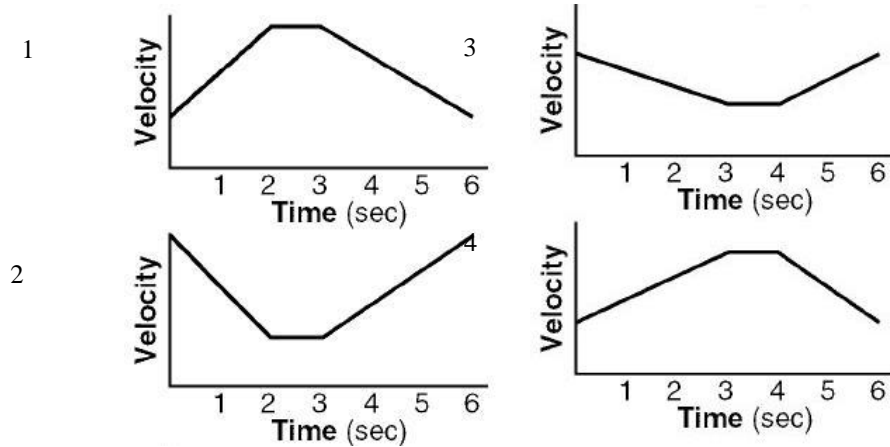


- A. three times as great
 - B. the same
 - C. one-third as great
 - D. twice as great
6. The graph below represents the motion of an object. According to the graph, as time increases, the velocity of the object



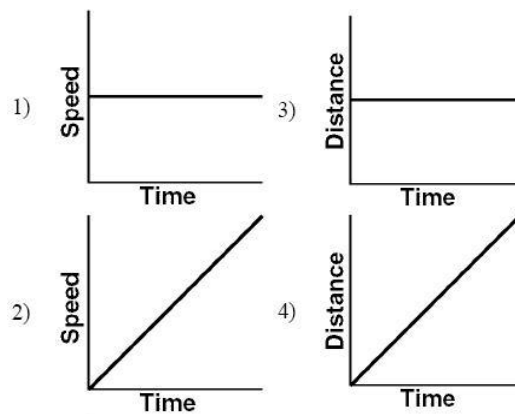
- A. increases
- B. decreases
- C. remains the same

7. Which graph best represents the relationship between velocity and time for an object which accelerates uniformly for 2 seconds, then moves at a constant velocity for 1 second, and finally decelerates for 3 seconds?



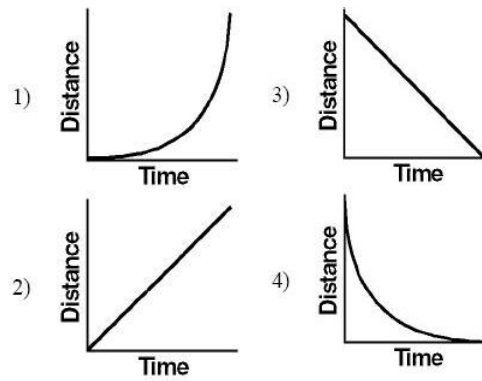
- A. 1
B. 2
C. 3
D. 4

8. Which graph best represents the motion of an object initially at rest and accelerating uniformly?



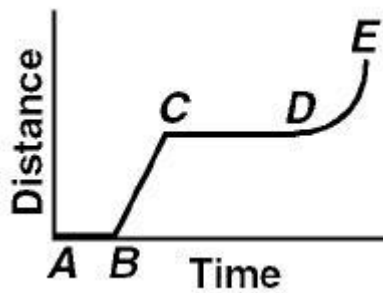
- A. 1
B. 2
C. 3
D. 4

9. Which graph best represents the motion of an object whose speed is increasing?



- A. 1
- B. 2
- C. 3
- D. 4

10. The graph below represents the relationship between distance and time for an object in motion. During which interval is the speed of the object changing?



- A. CD
- B. AB
- C. BC
- D. DE