



- 1. What is the cart's maximum velocity?
- 2. What is the velocity of the cart at 5.0 s?
- 3. What is its acceleration at 5.0 s?
- 4. When did the cart have constant velocity?
- 5. When did it have negative acceleration?
- 6. When did the cart have negative velocity?
- 7. What was the displacement of the cart at 3.0 s?
- 8. What distance had it moved by 7.0 s?
- 9. When did the cart first start to travel east?
- 10. What was the cart's total displacement?
- 11. What was the total distance travelled?
- 12. What was the average velocity in the first 13 s?
- 13. What was the average speed in the first 13 s?
- 14. Did the cart ever return to the starting point?



Motion Graph # 6 The following graph shows the motion of a cart moving along a straight path.

1.	What was the maximum velocity achieved by the cart?	
2.	What was the cart's velocity at the 10 s point?	
3.	Between what times was there constant velocity?	
4.	During what time was there max. positive acceleration?	
5.	What distance was travelled from 0 to 8.0 s?	
6.	What was the average acceleration between $t = 0$ to 12 s?	
7.	When did the cart first start to move west?	
8.	When did the cart first return to the starting point?	
9.	What was the cart's acceleration at 18 s?	
10.	What was the average velocity for the first 8.0 s?	
11.	What was the average speed for the first 8.0 s?	
12.	What was the average velocity for the first 12 s?	
13.	What was the average speed for the first 12 s?	
14.	Explain the motion of the cart at $t = 14$ s?	

Motion Graph # 7



- 1. During what time intervals did the object have: a. constant velocity?
 - b. greatest positive acceleration?
 - c. uniform negative acceleration?
 - d. non-uniform negative acceleration?
 - e. zero acceleration
- 2. What was the object's acceleration in the first 2 seconds?
- 3. What was the average acceleration in the first 4 seconds?
- 4. What was the instantaneous acceleration at 6.0 s?
- 5. What was the instantaneous acceleration at 22 s?
- 6. What was the average velocity between 12 and 14 s?
- 7. When did the object first start to move west?
- 8. What was the object's instantaneous velocity at 21 s?
- 9. What was the object's displacement in the first 2 seconds?
- 10. What was its displacement in the tenth second?

Motion Graph # 8



1. What is the object's velocity at the 20's point?	1.	What is the	object's	velocity at	the 20 s point?
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- 2. What is the acceleration at the 5 s point?
- 3. What is the acceleration at the 15 s point?
- 4. What is the acceleration a the 110 s point?
- 5. During what time intervals is the object travelling East?
- 6. When is the object stopped?
- 7. What is the displacement at the 25 s point?
- 8. What is the distance travelled in the first 25 s?
- 9. What was the average velocity for the first 25 s?
- 10. What is the object doing at the 45 s point?
- 11. When did the object first return to the starting point?
- 12. What was the object's average speed in the first 40 s?
- 13. What was the average velocity in the first 40 s?
- 14. What is the object doing at the 90 s point?