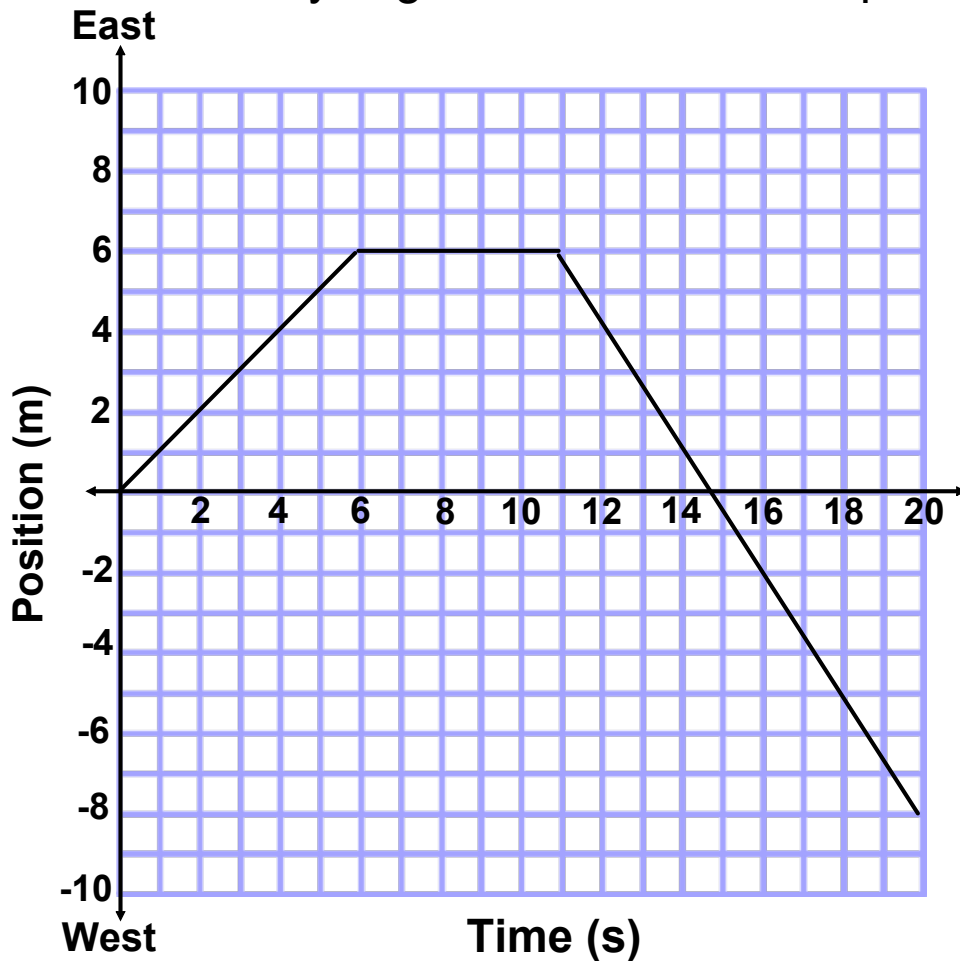
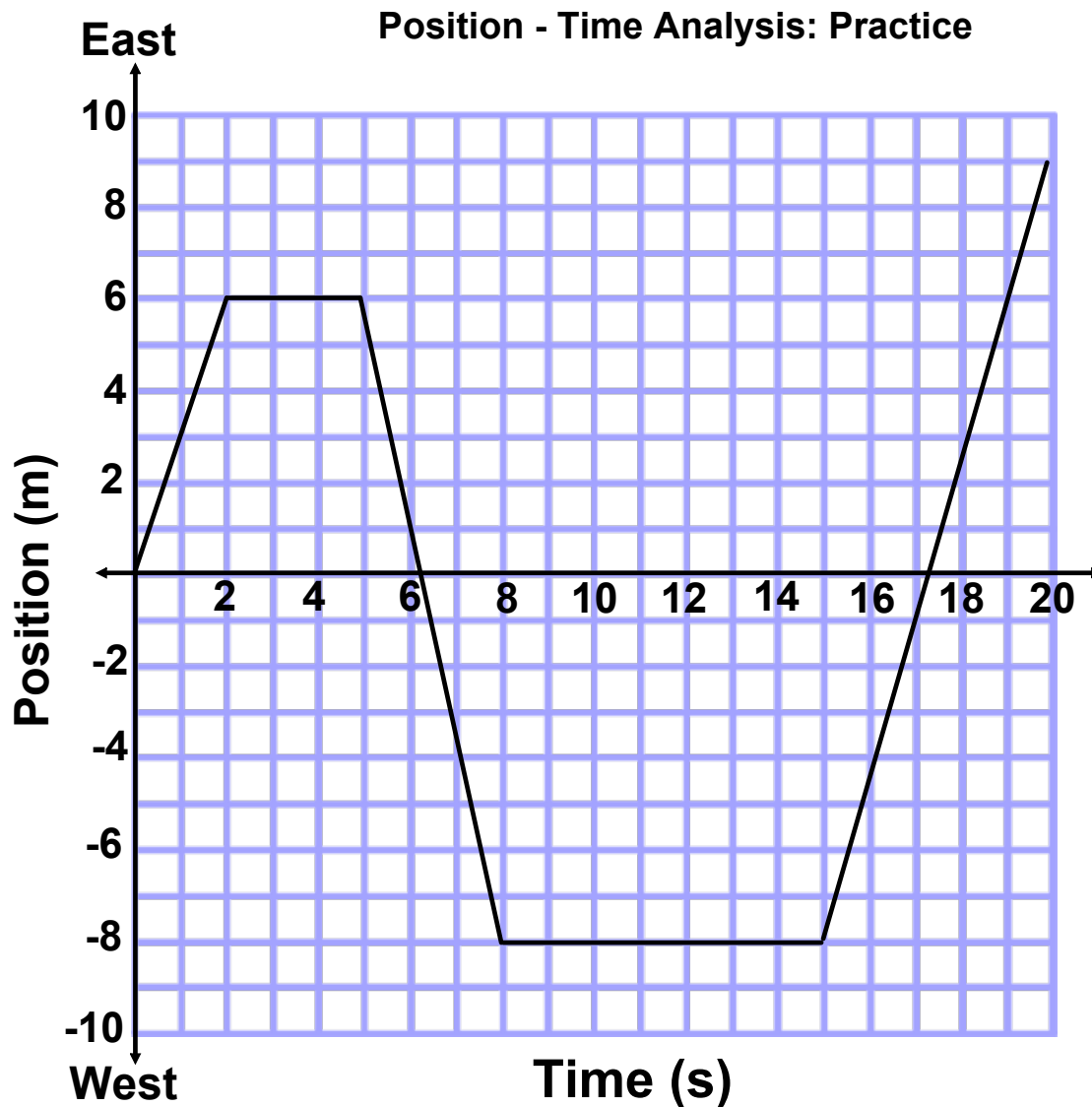


Analyzing Position - Time Graphs

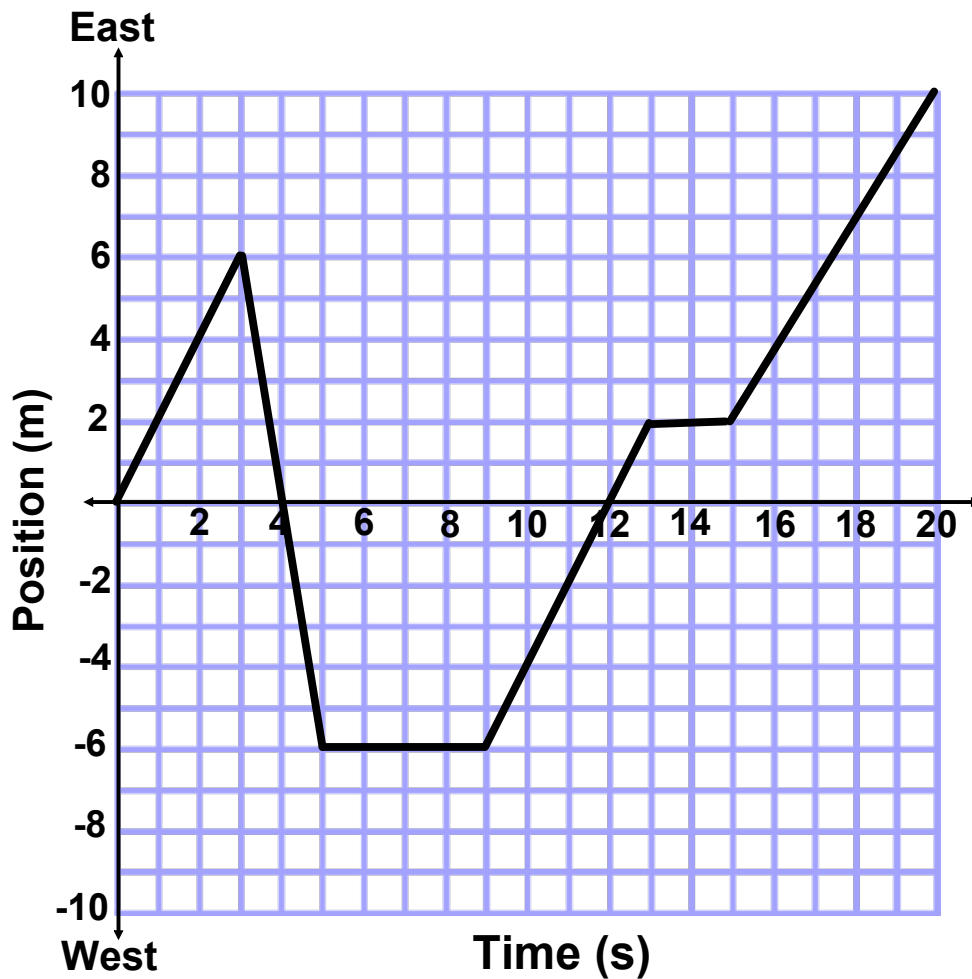


Examples

1. What was the object's position at the 4 second mark? 10 s mark? 18s mark?
2. Calculate the distance traveled during the first 14 seconds.
3. Calculate the average speed during the first 14 seconds.
4. Calculate the average velocity during the first 14 seconds.
5. Calculate the instantaneous velocity at the 16 second mark.
6. Calculate the object's total distance traveled and final position.
7. Calculate the object's average speed and velocity for the full 20 seconds.



1. Calculate the instantaneous velocity at 1, 6 and 20 seconds.
2. Calculate the distance covered during the first 8 seconds.
3. What was the position at 3, 10, and 18 seconds.
4. During which time interval was the highest speed obtained?
5. Other than the start, at what times was the object back at the starting position?
6. During what time interval(s) was the object traveling west?
7. Calculate the average speed and velocity during the first 6 seconds.
8. How long was the object not moving?
9. During what time intervals was the object east of the starting position but traveling west?
10. During what time intervals was the object west of the starting position but traveling east?
11. Calculate the average speed and average velocity for the entire 20 seconds.



1. Calculate the instantaneous velocity at 4 s, 10 s, and 18 second marks.
2. At what time(s) did the object return to the starting point?
3. For how many seconds was the object not moving?
4. At what time(s) during the first 5 seconds did the object change direction?
5. During what time interval(s) was the object positioned east but moving west?
6. How many seconds did it take the object to travel a distance of 6 m? 20 m?
7. Calculate the average speeds from question 5.
8. At what time(s) was the object 3 m [W] of the starting point? 2 m [E]?
9. During what time interval did the object have the greatest speed?
10. Calculate the average velocity at the 4 s, 8 s, 15 s and 20 s marks.
11. Calculate the average speed for the entire 20 s trip.

Attachments

moving-man_all.jar