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Motion Graph \#1 - The following graph indicates the motion of a car along a North-South path.


1. What was the total distance travelled to 50 s?
2. What was the displacement of the car at 50 s ?
3. When, if at all, was the car stopped?
4. When did the car return to the starting point?
5. What was the car's displacement at 85 s ?
6. What was the average velocity in the first 45 s ?
7. What is the average velocity up until 25.0 s?
8. When was the velocity constant?
9. When did the car first start to move southward?
10. What total distance did the car travel?
11. What was the car's total displacement?
12. What was the car's velocity at 85 s ?
13. What was the car's speed at 85 s?
14. What was the average velocity of the car up to 95 s?
15. What was the average speed of the car up to 95 s?
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Motion Graph \#2 - The following graph indicates the motion of a car along an East-West path.


1. During what time intervals was the car going east?
2. During what time intervals was the car stopped?
3. What was the speed of the car at 1.0 s ?
4. What was the velocity of the car at 1.0 s ?
5. What was the average velocity of the car in the first 4.0 s ?
6. When did the car start to go west?
7. What was the car's velocity at 5.5 s ?
8. What was the car's speed at 5.5 s?
9. What was the car's displacement at 6.0 s?
10. What was the car's velocity at 7.6 s ?
11. What was the car's total displacement?
12. What was the total distance the car travelled?
13. What was the average velocity for the trip?
14. What was the average speed for the trip?
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Motion Graph \#3 - The following graph indicates the motion of an object along an East-West path.


1. Was the object ever stopped? If so, when?
2. What was the total distance travelled in 8.0 s ?
3. What was the total displacement after 8.0 s?
4. What was the speed at the 2.0 s point?
5. What was the speed at the 6.0 s point?
6. What was the velocity at 2.0 s ?
7. What was the velocity at 6.0 s ?
8. What was the velocity at 13 s ?
9. When did the object return to the starting point?
10. What was the average speed in the first 8.0 s ?
11. What was the average velocity in the first 8.0 s ?
12. What was the total distance travelled by the object?
13. What was the object's total displacement?
14. What was the average velocity for the first 10 s ?
15. What was the average speed for the first 10 s ?
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Motion Graph \#4 - The following graph indicates the motion of an object along an North-South path.


1. What is the object's velocity at 20 s ?
2. What is the object's speed at 45 s ?
3. What is the object's velocity at 65 s ?
4. How far did the object travel in the first 50 s?
5. What was the object's displacement at 60 s ?
6. What is the object doing after the first 60 s
7. What is the total distance travelled by the object?
8. What is the object's final displacement?
9. What is the average speed of the object up to 40 s?
10. What is the object's average velocity up to 71 s ?
11. When is the object travelling eastward?
12. When did the object change direction for the first time?
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