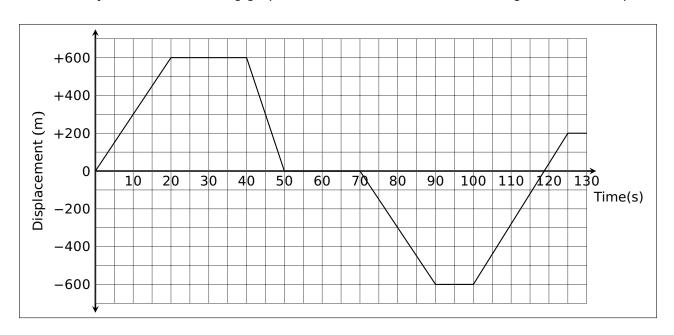
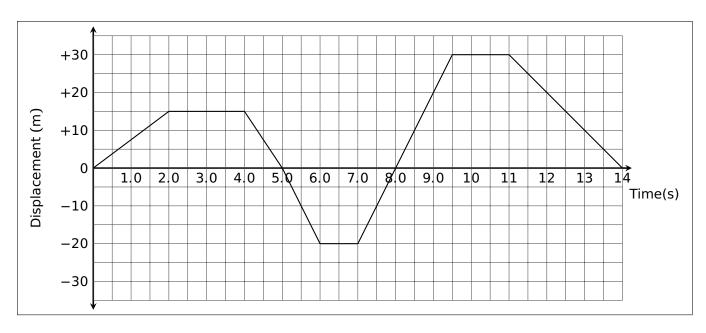
Motion Graph #1 - The following graph indicates the motion of a car along a North-South path.



- 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?

- 1. _____
- 2.
- 3
- 4
- 5.
- 6. ____
- 7. _____
- 8. _____
- 9. _____
- 10. _____
- 12. _____
- 13. _____
- 14. _____
- 15. _____

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?

1

2. During what time intervals was the car stopped?

2. _____

3. What was the speed of the car at 1.0 s?

3. _____

4. What was the velocity of the car at 1.0 s?

- 4. _____
- 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. _____

7. What was the car's velocity at 5.5 s?

8. What was the car's speed at 5.5 s?

9. _____

9. What was the car's displacement at 6.0 s?

10. _____

10. What was the car's velocity at 7.6 s?

11. _____

12. What was the total distance the car travelled?

11. What was the car's total displacement?

12. _____

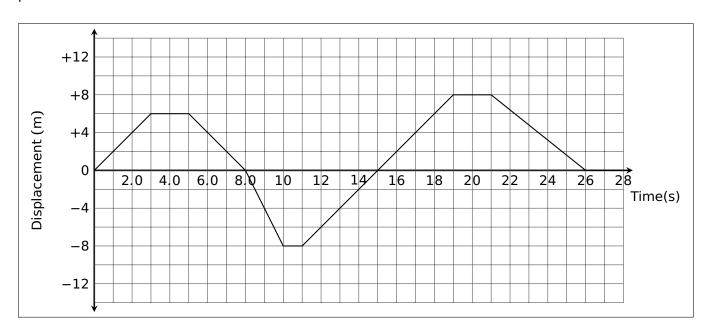
13. What was the average velocity for the trip?

13. _____

14. What was the average speed for the trip?

14. _____

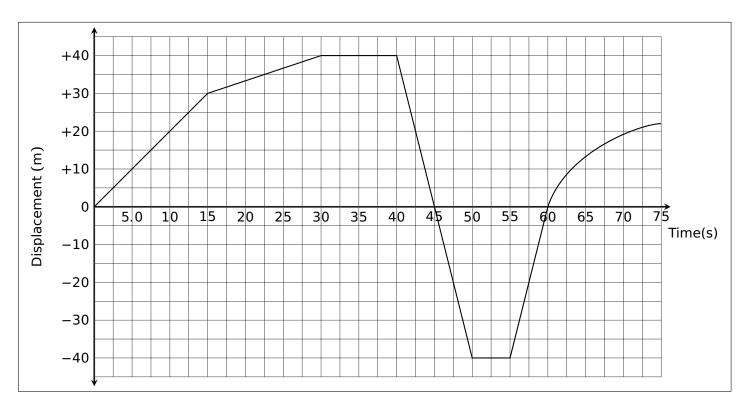
Motion Graph #3 - The following graph indicates the motion of an object along an East-West path.



- 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?

- 1.
- 2. _____
- 3.
- 4. _____
- 5
- 6.
- 7
- 8.
- 9. _____
- 10. _____
- 11. _____
- 12. _____
- 13. _____
- 14. _____
- 15. _____

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?

- 1.
- 2.
- 3.
- 4
- 5. _____
- 6.
- 7. _____
- 8
- 9.
- 10. _____
- 11
- 12. _____