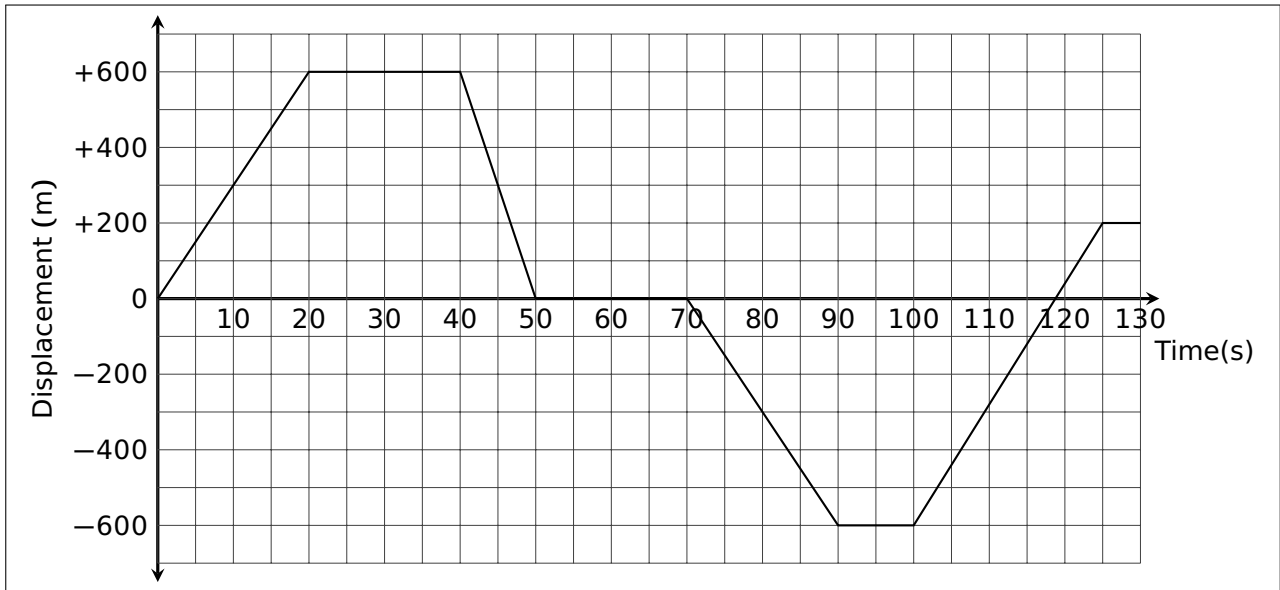
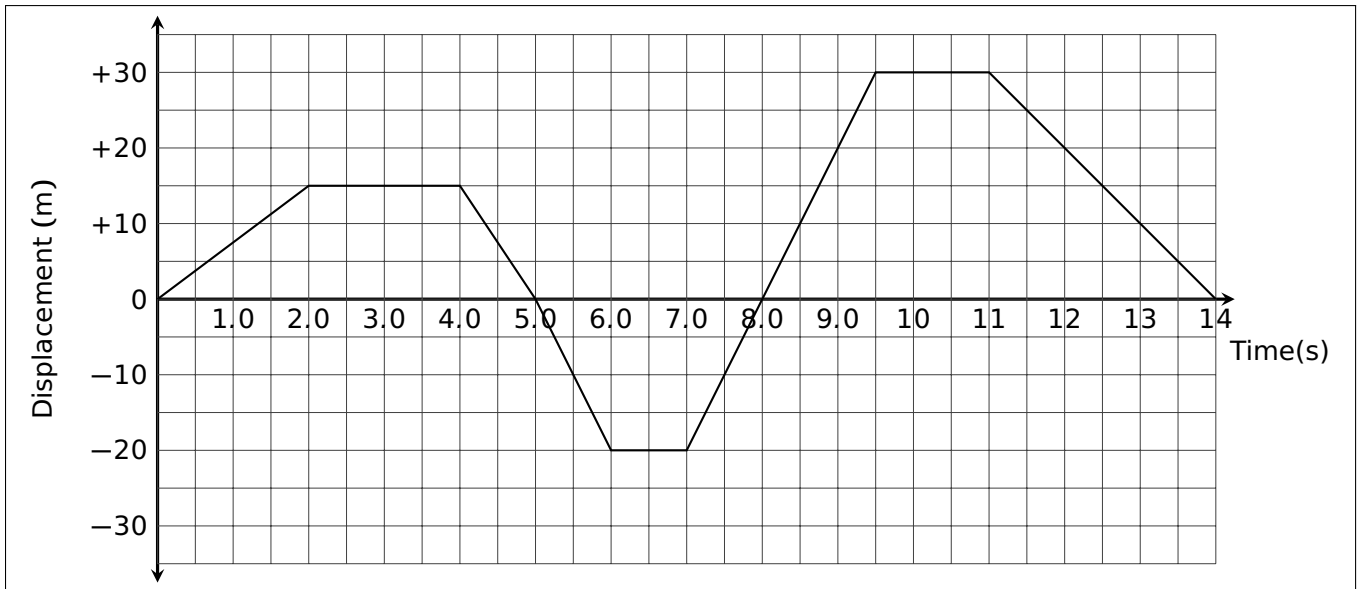


Motion Graph #1 - The following graph indicates the motion of a car along a North-South path.



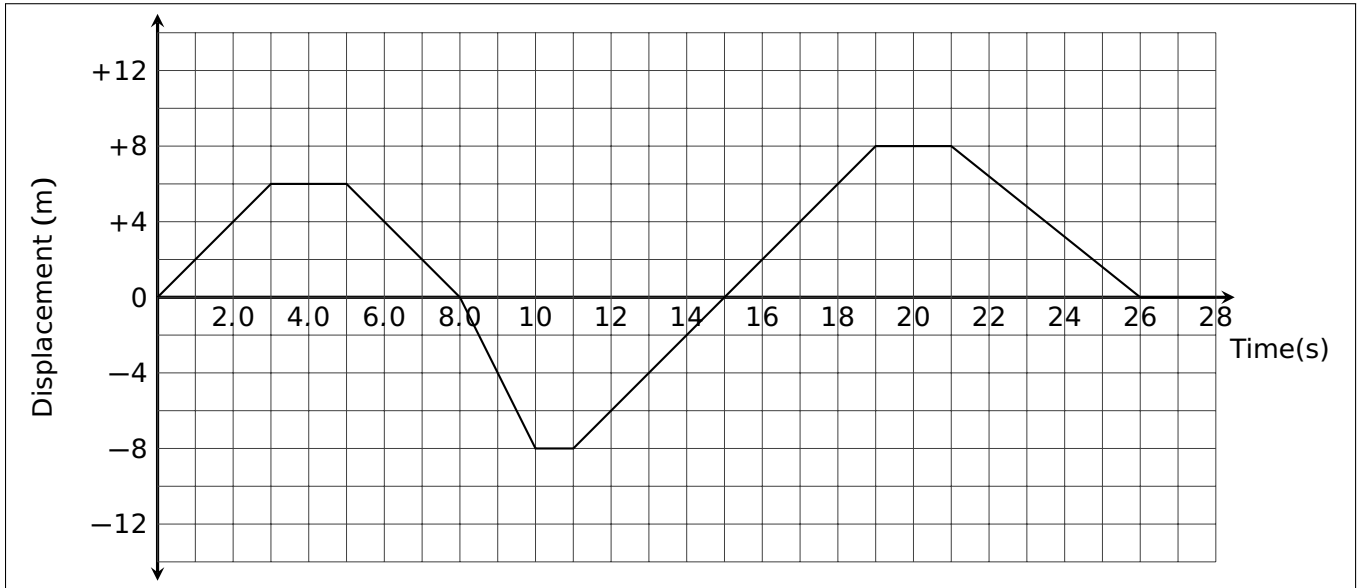
1. What was the total distance travelled to 50 s? 1. _____
2. What was the displacement of the car at 50 s? 2. _____
3. When, if at all, was the car stopped? 3. _____
4. When did the car return to the starting point? 4. _____
5. What was the car's displacement at 85 s? 5. _____
6. What was the average velocity in the first 45 s? 6. _____
7. What is the average velocity up until 25.0 s? 7. _____
8. When was the velocity constant? 8. _____
9. When did the car first start to move southward? 9. _____
10. What total distance did the car travel? 10. _____
11. What was the car's total displacement? 11. _____
12. What was the car's velocity at 85 s? 12. _____
13. What was the car's speed at 85 s? 13. _____
14. What was the average velocity of the car up to 95 s? 14. _____
15. What was the average speed of the car up to 95 s? 15. _____

Motion Graph #2 - The following graph indicates the motion of a car along an East-West path.



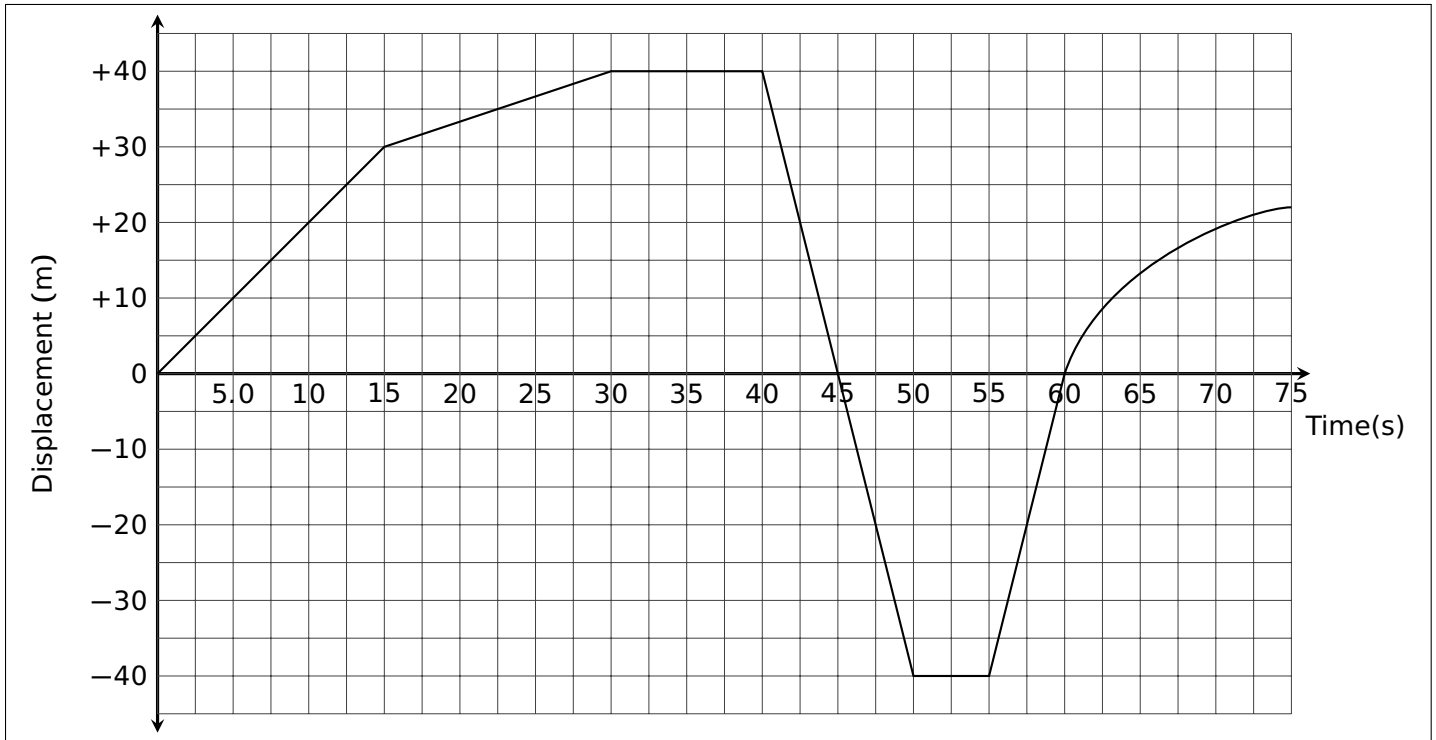
1. During what time intervals was the car going east? 1. _____
2. During what time intervals was the car stopped? 2. _____
3. What was the speed of the car at 1.0 s? 3. _____
4. What was the velocity of the car at 1.0 s? 4. _____
5. What was the average velocity of the car in the first 4.0 s? 5. _____
6. When did the car start to go west? 6. _____
7. What was the car's velocity at 5.5 s? 7. _____
8. What was the car's speed at 5.5 s? 8. _____
9. What was the car's displacement at 6.0 s? 9. _____
10. What was the car's velocity at 7.6 s? 10. _____
11. What was the car's total displacement? 11. _____
12. What was the total distance the car travelled? 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? 1. _____
2. What was the total distance travelled in 8.0 s? 2. _____
3. What was the total displacement after 8.0 s? 3. _____
4. What was the speed at the 2.0 s point? 4. _____
5. What was the speed at the 6.0 s point? 5. _____
6. What was the velocity at 2.0 s? 6. _____
7. What was the velocity at 6.0 s? 7. _____
8. What was the velocity at 13 s? 8. _____
9. When did the object return to the starting point? 9. _____
10. What was the average speed in the first 8.0 s? 10. _____
11. What was the average velocity in the first 8.0 s? 11. _____
12. What was the total distance travelled by the object? 12. _____
13. What was the object's total displacement? 13. _____
14. What was the average velocity for the first 10 s? 14. _____
15. What was the average speed for the first 10 s? 15. _____

Motion Graph #4 - The following graph indicates the motion of an object along an East-West path.



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