



7. Show the shape of the distance-time graph for the motion in the following cases :

- (i) A car moving with a constant speed.
- (ii) A car parked on a side road

Answer:

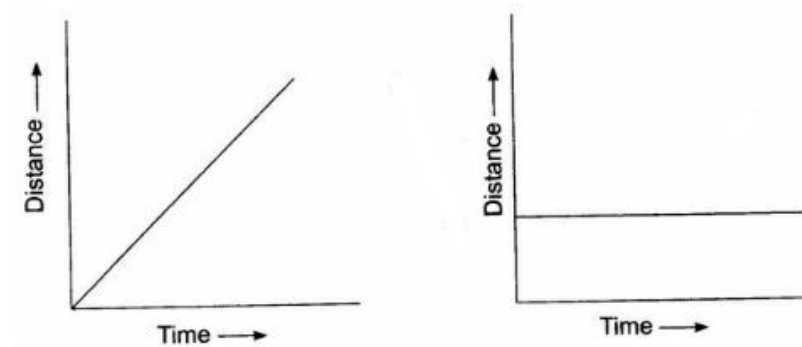


Fig. 13.9

8. Which of the following relations is correct?

- (i) Speed = Distance Time
- (ii) Speed = Distance/Time
- (iii) Speed = Time/Distance
- (iv) Speed = 1/Distance Time

Answer: (ii) Speed = Distance/Time is correct

9. The basic unit of speed is:

- (i) km/min (ii) m/min (iii) km/h (iv) m/s

Answer: (iv) m/s

10. A car moves with a speed of 40 km/h for 15 minutes and then with a speed of 60 km/h for the next 15 minutes. The total distance covered by the car is:

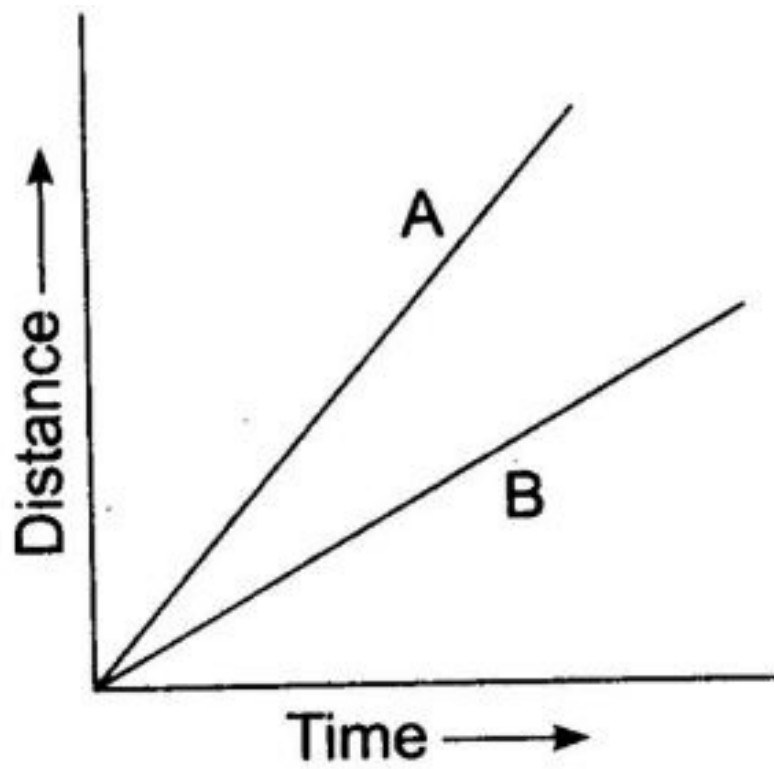
- (i) 100 km (ii) 25 km (iii) 15 km (iv) 10 km

Answer: (ii) 25 km

11. Suppose the two photographs, shown in fig. 13.1 and fig. 13.2 of NCERT had been taken at an interval of 10 seconds. If a distance of 100 metres is shown by 1 cm in these photographs, calculate the speed of the blue car.

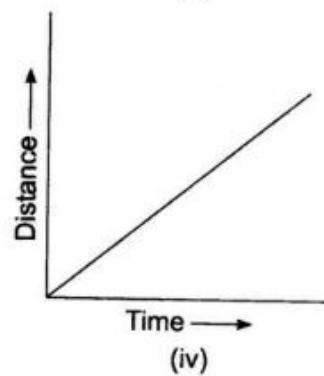
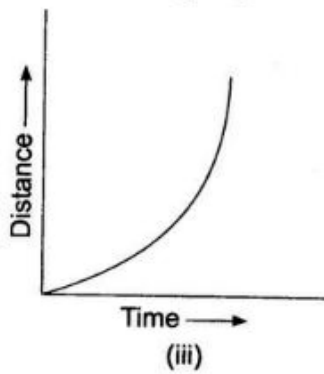
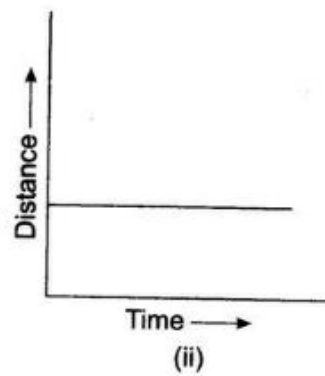
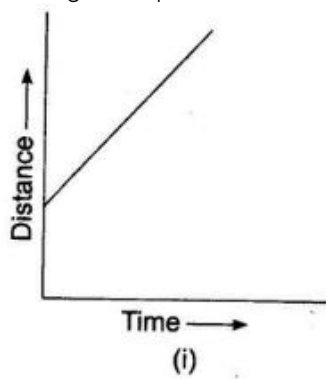
Answer: 0.1 cm/s or 10 m/s

12. Fig 13.10 shows the distance-time graph for the motion of two vehicles A and B. Which one of them is moving faster?



Answer: 'A' is moving faster.

13. Which of the following distance-time graphs shows a truck moving with speed which is not constant?



Answer: (iii)

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