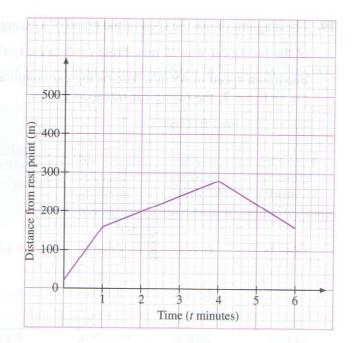
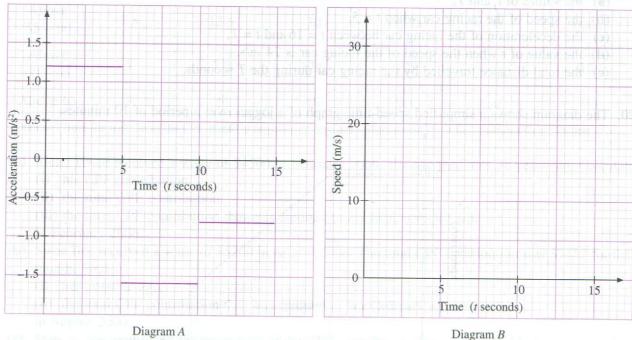
- 17. The distance-time graph shows the positions of Amanda from a rest point in a park during a 6-minute interval.
 - (a) (i) State the time interval for which Amanda moved at the greatest speed.
 - (ii) Hence, find the speed in m/s.
 - (b) Calculate Amanda's average speed, in m/s, during the 6 minutes.
 - (c) At t = 1, Benjamin began running towards the rest point from a position that is 480 m away. His speed was constant at 2 m/s until he reached the rest point.

Draw the distance-time graph of Benjamin's run on the diagram above.

- (d) Use your graph to estimate
 - (i) the distance between Benjamin and the rest point when he met Amanda,
 - (ii) the duration of Benjamin's run before he met Amanda.



18. Diagram A shows the acceleration-time graph of a car during a 15-second interval.



- (a) Draw in diagram B, the speed-time graph of the car during the 15-second interval if its speed, when t = 0, is 18 m/s.
- (b) Find the average speed of the car during the period
 - (i) t = 0 to t = 5.
 - (ii) t = 5 to t = 10,
 - (iii) t = 10 to t = 15.