- 2.2 The position-time (*x-t*) graphs for two children A and B returning from their school O to their homes P and Q respectively are shown in Fig. 2.9. Choose the correct entries in the brackets below;
 (a) (A/B) lives closer to the school than (B/A)
 - (a) (A/B) lives closer to the school than (B/A)
 (b) (A/B) starts from the school earlier than (B/A)
 (c) (A/B) walks faster than (B/A)

Fig. 2.9

(d) A and B reach home at the (same/different) time (e) (A/B) overtakes (B/A) on the road (once/twice).



- otherwise how long the drunkard takes to fall in a pit 13 m away from the start. A car moving along a straight highway with speed of 126 km h^{-1} is brought to a 2.5
 - stop within a distance of 200 m. What is the retardation of the car (assumed uniform), and how long does it take for the car to stop?

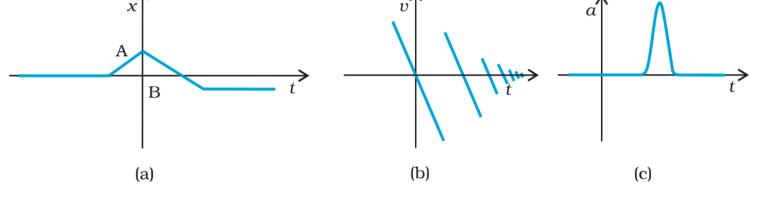


Fig. 2.12