

Physics

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(Chapter 3) (Motion in a straight line) (Exercises)

(Class 11)

Question 3.3:

A woman starts from her home at 9.00 am, walks with a speed of 5 km h^{-1} on a straight road up to her office 2.5 km away, stays at the office up to 5.00 pm, and returns home by an auto with a speed of 25 km h^{-1} . Choose suitable scales and plot the $x-t$ graph of her motion.

Answer 3.3:

Speed of the woman = 5 km/h

Distance between her office and home = 2.5 km

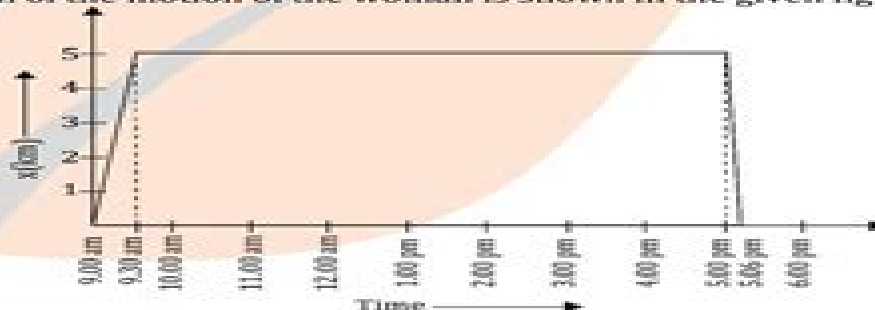
$$\text{Time taken} = \frac{\text{Distance}}{\text{Speed}} = \frac{2.5}{5} = 0.5 \text{ h} = 30 \text{ min}$$

It is given that she covers the same distance in the evening by an auto.

Now, speed of the auto = 25 km/h

$$\text{Time taken} = \frac{\text{Distance}}{\text{Speed}} = \frac{2.5}{25} = \frac{1}{10} = 0.1 \text{ h} = 6 \text{ min}$$

The suitable $x - t$ graph of the motion of the woman is shown in the given figure.



Question 3.4:

A drunkard walking in a narrow lane takes 5 steps forward and 3 steps backward, followed again by 5 steps forward and 3 steps backward, and so on. Each step is 1 m long and requires 1 s. Plot the $x-t$ graph of his motion. Determine graphically and otherwise how long the drunkard takes to fall in a pit 13 m away from the start.

Answer 3.4:

Distance covered with 1 step = 1 m

Time taken = 1 s

Time taken to move first 5 m forward = 5 s

Time taken to move 3 m backward = 3 s

Net distance covered = $5 - 3 = 2 \text{ m}$

Net time taken to cover 2 m = 8 s

Drunkard covers 2 m in 8 s.

Drunkard covered 4 m in 16 s.

Drunkard covered 6 m in 24 s.

Drunkard covered 8 m in 32 s.

In the next 5 s, the drunkard will cover a distance of 5 m, a total distance of 13 m and falls into the pit.

Net time taken by the drunkard to cover 13 m = $32 + 5 = 37 \text{ s}$.

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