

Section 1.1: Motion and Motion Graphs

Tutorial 1 Practice, page 10

1. (a) Given: $\Delta d_1 = 1.2 \text{ km}$; $\Delta t_1 = 24 \text{ min}$; $\Delta d_2 = 1.2 \text{ km}$; $\Delta t_2 = 24 \text{ min}$

Required: v_{av}

Analysis: Calculate the total distance travelled, $\Delta d = \Delta d_1 + \Delta d_2$, and the total time taken, $\Delta t = \Delta t_1 + \Delta t_2$. Then, use the equation $v_{av} = \frac{\Delta d}{\Delta t}$ to calculate the average speed.

$$\Delta t_1 = 24 \text{ min} \times \frac{1 \text{ h}}{60 \text{ min}}$$

$$\Delta t_1 = 0.40 \text{ h}$$

$$\Delta t_2 = 0.40 \text{ h}$$

$$\begin{aligned}\text{Solution: } \Delta d &= \Delta d_1 + \Delta d_2 \\ &= 1.2 \text{ km} + 1.2 \text{ km} \\ \Delta d &= 2.4 \text{ km}\end{aligned}$$

$$\begin{aligned}\Delta t &= \Delta t_1 + \Delta t_2 \\ &= 0.40 \text{ h} + 0.40 \text{ h}\end{aligned}$$

$$\Delta t = 0.80 \text{ h}$$

$$\begin{aligned}v_{av} &= \frac{\Delta d}{\Delta t} \\ &= \frac{2.4 \text{ km}}{0.80 \text{ h}}\end{aligned}$$

$$v_{av} = 3.0 \text{ km/h}$$

Statement: The average speed for the entire route is 3.0 km/h.

(b) Given: $\Delta \vec{d} = 1.2 \text{ km [E]}$; $\Delta t = 24 \text{ min}$

Required: $\vec{v}_{av}$

Analysis: The average velocity is the ratio of the displacement and the time taken, $\vec{v}_{av} = \frac{\Delta \vec{d}}{\Delta t}$.

$$\Delta t = 24 \text{ min} \times \frac{1 \text{ h}}{60 \text{ min}}$$

$$\Delta t = 0.40 \text{ h}$$

$$\begin{aligned}\text{Solution: } \vec{v}_{av} &= \frac{\Delta \vec{d}}{\Delta t} \\ &= \frac{1.2 \text{ km [E]}}{0.40 \text{ h}} \\ \vec{v}_{av} &= 3.0 \text{ km/h [E]}\end{aligned}$$

Statement: The average velocity from the house to the farthest position from the house is 3.0 km/h [E].

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