

Section 1.1: Motion and Motion Graphs

Tutorial 1 Practice, page 10

1. (a) Given: $\Delta d_1 = 1.2 \text{ km}$; $\Delta t_1 = 4 \text{ min}$; $\Delta d_2 = 1.2 \text{ km}$; $\Delta t_2 = 4 \text{ min}$

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.

$$\Delta t_1 = 4 \text{ min} \times \frac{1 \text{ h}}{60 \text{ min}}$$

$$\Delta t_1 = 4 \text{ h}$$

$$\Delta t_2 = 4 \text{ h}$$

$$\begin{aligned} \text{Solution: } \Delta d &= \Delta d_1 + \Delta d_2 \\ &= 1.2 \text{ km} + 1.2 \text{ km} \\ \Delta d &= 4 \text{ km} \end{aligned}$$

$$\begin{aligned} \Delta t &= \Delta t_1 + \Delta t_2 \\ &= 4 \text{ h} + 4 \text{ h} \end{aligned}$$

$$\Delta t = 8 \text{ h}$$

$$\begin{aligned} v_{av} &= \frac{\Delta d}{\Delta t} \\ &= \frac{4 \text{ km}}{8 \text{ h}} \end{aligned}$$

$$v_{av} = 0.5 \text{ km/h}$$

Statement: The average speed for the entire route is 0.5 km/h .

(b) Given: $\Delta \vec{d} = 1.2 \text{ km [E]}$; $\Delta t = 4 \text{ min}$

Required: \vec{v}_{av}

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

$$\Delta t = 4 \text{ min} \times \frac{1 \text{ h}}{60 \text{ min}}$$

$$\Delta t = 4 \text{ h}$$

$$\begin{aligned} \text{Solution: } \vec{v}_{av} &= \frac{\Delta \vec{d}}{\Delta t} \\ &= \frac{1.2 \text{ km [E]}}{4 \text{ h}} \end{aligned}$$

$$\vec{v}_{av} = 0.3 \text{ km/h [E]}$$

Statement: The average velocity from the house to the farthest position from the house is 0.3 km/h [E] .

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Brendan G. Carr



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1. Understanding the eBook Nelson Physics 12u 2012 Solutions Manual
 - The Rise of Digital Reading Nelson Physics 12u 2012 Solutions Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Nelson Physics 12u 2012 Solutions Manual
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Nelson Physics 12u 2012 Solutions Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Nelson Physics 12u 2012 Solutions Manual
 - Personalized Recommendations
 - Nelson Physics 12u 2012 Solutions Manual User Reviews and Ratings
 - Nelson Physics 12u 2012 Solutions Manual and Bestseller Lists

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 - Nelson Physics 12u 2012 Solutions Manual eBook Subscription Services
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 - Adjustable Fonts and Text Sizes of Nelson Physics 12u 2012 Solutions Manual
 - Highlighting and Note-Taking Nelson Physics 12u 2012 Solutions Manual
 - Interactive Elements Nelson Physics 12u 2012 Solutions Manual
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 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Nelson Physics 12u 2012 Solutions Manual
9. Balancing eBooks and Physical Books Nelson Physics 12u 2012 Solutions Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Nelson Physics 12u 2012 Solutions Manual
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Nelson Physics 12u 2012 Solutions Manual
 - Setting Reading Goals Nelson Physics 12u 2012 Solutions Manual
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Nelson Physics 12u 2012 Solutions Manual
 - Fact-Checking eBook Content of Nelson Physics 12u 2012 Solutions Manual
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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