

Motion In One Dimension



Displacement and Velocity, p. 7

1. Yes, from t_1 to t_4 and from t_6 to t_9 .
2. Yes, from t_4 to t_9 .
3. greater than
4. greater than
5. Yes, from 0 to t_1 and from t_5 to t_6 .
6. Yes, from t_1 to t_2 , from t_2 to t_6 , from t_4 to t_5 , and from t_6 to t_9 .
7. -5.0 m (or 5.0 m to the west of where it started)

Acceleration, p. 8

1. $v_f = 0$. The car is stopped.
2. $v_i = \frac{2\Delta x}{\Delta t}$
3. $a = \frac{-v_i}{\Delta t}$
4. $a = \frac{-v_i^2}{2\Delta x}$
5. $v_f = -a\Delta t$; $\Delta x = \frac{1}{2}v_i\Delta t$

Falling Objects, p. 9

1. a. $-g$
b. initial speed = $g(\Delta t/2)$
c. elapsed time = $\Delta t/2$
2. a. -9.81 m/s²
b. 12 m/s
3. d. height = $g\Delta t^2/8$
e. 1.2 s

Mixed Review, pp. 11–12

1. a. $t_1 = d_1/v_1$; $t_2 = d_2/v_2$; $t_3 = d_3/v_3$
b. total distance = $d_1 + d_2 + d_3$
c. total time = $t_1 + t_2 + t_3$
2. a. $v_f = a(\Delta t)$
b. $v_f = v_i + a(\Delta t)$; $\Delta x = \frac{1}{2}(v_i + v_f)\Delta t$ or $\Delta x = v_i(\Delta t) + \frac{1}{2}a(\Delta t)^2$

3.

Time interval	Type of motion	v (m/s)	a (m/s ²)
A	speeding up	+	+
B	speeding up	+	+
C	constant velocity	+	0
D	slowing down	+	–
E	slowing down	+	–

4. a.

Time (s)	Position (m)	v (m/s)	a (m/s ²)
1	4.9	0	-9.81
2	0	-9.8	-9.81
3	-14.7	-19.6	-9.81
4	-39.2	-29.4	-9.81

b. 1 sc. 2 s

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Table of Contents Describing Motion Study Guide Answers

1. Understanding the eBook Describing Motion Study Guide Answers
 - The Rise of Digital Reading Describing Motion Study Guide Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Describing Motion Study Guide Answers
 - 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 Describing Motion Study Guide Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Describing Motion Study Guide Answers
 - Personalized Recommendations

- Describing Motion Study Guide Answers User Reviews and Ratings
- Describing Motion Study Guide Answers and Bestseller Lists
- 5. Accessing Describing Motion Study Guide Answers Free and Paid eBooks
 - Describing Motion Study Guide Answers Public Domain eBooks
 - Describing Motion Study Guide Answers eBook Subscription Services
 - Describing Motion Study Guide Answers Budget-Friendly Options
- 6. Navigating Describing Motion Study Guide Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Describing Motion Study Guide Answers Compatibility with Devices
 - Describing Motion Study Guide Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Describing Motion Study Guide Answers
 - Highlighting and Note-Taking Describing Motion Study Guide Answers
 - Interactive Elements Describing Motion Study Guide Answers
- 8. Staying Engaged with Describing Motion Study Guide Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Describing Motion Study Guide Answers
- 9. Balancing eBooks and Physical Books Describing Motion Study Guide Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Describing Motion Study Guide Answers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Describing Motion Study Guide Answers
 - Setting Reading Goals Describing Motion Study Guide Answers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Describing Motion Study Guide Answers
 - Fact-Checking eBook Content of Describing Motion Study Guide Answers

- 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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