

Chapter 2. Motion in a Straight Line

Concept Checks

2.1. d 2.2. b 2.3. b 2.4. c 2.5. a) 3 b) 1 c) 4 d) 2 2.6. c 2.7. d 2.8. c 2.9. d

Multiple-Choice Questions

2.1. c 2.2. c 2.3. c 2.4. b 2.5. c 2.6. a 2.7. d 2.8. c 2.9. a 2.10. b 2.11. b 2.12. d 2.13. c 2.14. d 2.15. a 2.16. c

Conceptual Questions

- 2.17. Velocity and speed are defined differently. The magnitude of average velocity and average speed are the same only when the direction of movement does not change. If the direction changes during movement, it is known that the net displacement is smaller than the net distance. Using the definition of average velocity and speed, it can be said that the magnitude of average velocity is less than the average speed when the direction changes during movement. Here, only Christine changes direction during her movement. Therefore, only Christine has a magnitude of average velocity which is smaller than her average speed.
- 2.18. The acceleration due to gravity is always pointing downward to the center of the Earth.



It can be seen that the direction of velocity is opposite to the direction of acceleration when the ball is in flight upward. The direction of velocity is the same as the direction of acceleration when the ball is in flight downward.

- 2.19. The car, before the brakes are applied, has a constant velocity, v_0 , and zero acceleration. After the brakes are applied, the acceleration is constant and in the direction opposite to the velocity. In velocity versus time and acceleration versus time graphs, the motion is described in the figures below.



- 2.20. There are two cars, car 1 and car 2. The decelerations are $a_1 = 2a_2 = -a_0$ after applying the brakes. Before applying the brakes, the velocities of both cars are the same, $v_1 = v_2 = v_0$. When the cars have completely stopped, the final velocities are zero, $v_1 = 0$. $v_1 = v_0 + at = 0 \Rightarrow t = -\frac{v_0}{a}$. Therefore, the ratio of time taken

to stop is $\text{Ratio} = \frac{\text{time of car 1}}{\text{time of car 2}} = \frac{-v_0 / -a_0}{-v_0 / \left(-\frac{1}{2}a_0\right)} = \frac{1}{2}$. So the ratio is one half.

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1. Understanding the eBook Laboratory Manual 53 Answers
 - The Rise of Digital Reading Laboratory Manual 53 Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Laboratory Manual 53 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 Laboratory Manual 53 Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Laboratory Manual 53 Answers
 - Personalized Recommendations
 - Laboratory Manual 53 Answers User Reviews and Ratings
 - Laboratory Manual 53 Answers and Bestseller Lists

5. Accessing Laboratory Manual 53 Answers Free and Paid eBooks
 - Laboratory Manual 53 Answers Public Domain eBooks
 - Laboratory Manual 53 Answers eBook Subscription Services
 - Laboratory Manual 53 Answers Budget-Friendly Options
6. Navigating Laboratory Manual 53 Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Laboratory Manual 53 Answers Compatibility with Devices
 - Laboratory Manual 53 Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Laboratory Manual 53 Answers
 - Highlighting and Note-Taking Laboratory Manual 53 Answers
 - Interactive Elements Laboratory Manual 53 Answers
8. Staying Engaged with Laboratory Manual 53 Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Laboratory Manual 53 Answers
9. Balancing eBooks and Physical Books Laboratory Manual 53 Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Laboratory Manual 53 Answers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Laboratory Manual 53 Answers
 - Setting Reading Goals Laboratory Manual 53 Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Laboratory Manual 53 Answers
 - Fact-Checking eBook Content of Laboratory Manual 53 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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