

4

Motion in Two Dimensions

CHAPTER OUTLINE

- 4.1 The Position, Velocity, and Acceleration Vectors
- 4.2 Two-Dimensional Motion with Constant Acceleration
- 4.3 Projectile Motion
- 4.4 Uniform Circular Motion
- 4.5 Tangential and Radial Acceleration
- 4.6 Relative Velocity and Relative Acceleration

ANSWERS TO QUESTIONS

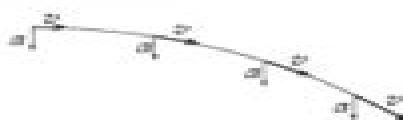
Q 4.1 Yes. An object moving in uniform circular motion moves at a constant speed, but changes its direction of motion. An object cannot accelerate if its velocity is constant.

Q 4.2 No, you cannot determine the instantaneous velocity. Yes, you can determine the average velocity. The points could be widely separated. In this case, you can only determine the average velocity, which is

$$\bar{v} = \frac{\Delta x}{\Delta t}$$

Q 4.3

(a)



(b)



Q 4.4

(a) 10 i m/s

(b) -8.80 j m/s²

Q 4.5

The easiest way to approach this problem is to determine acceleration first, velocity second and finally position.

Vertical: In free flight, $a_y = -g$. At the top of a projectile's trajectory, $v_y = 0$. Using this, the maximum height can be found using $v_{y_f}^2 = v_{y_i}^2 + 2a_y(y_f - y_i)$.

Horizontal: $a_x = 0$, so v_x is always the same. To find the horizontal position at maximum height, one needs the flight time, t . Using the vertical information found previously, the flight time can be found using $v_{y_f} = v_{y_i} + a_y t$. The horizontal position is $x_f = v_x t$.

If air resistance is taken into account, then the acceleration in both the x and y -directions would have an additional term due to the drag.

Q 4.6

A parabola.

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Douglas Brandt

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Table of Contents Motion Two Dimensions Study Guide Answers

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

- Motion Two Dimensions Study Guide Answers User Reviews and Ratings
- Motion Two Dimensions Study Guide Answers and Bestseller Lists

5. Accessing Motion Two Dimensions Study Guide Answers Free and Paid eBooks

- Motion Two Dimensions Study Guide Answers Public Domain eBooks
- Motion Two Dimensions Study Guide Answers eBook Subscription Services
- Motion Two Dimensions Study Guide Answers Budget-Friendly Options

6. Navigating Motion Two Dimensions Study Guide Answers eBook Formats

- ePUB, PDF, MOBI, and More
- Motion Two Dimensions Study Guide Answers Compatibility with Devices
- Motion Two Dimensions Study Guide Answers Enhanced eBook Features

7. Enhancing Your Reading Experience

- Adjustable Fonts and Text Sizes of Motion Two Dimensions Study Guide Answers
- Highlighting and Note-Taking Motion Two Dimensions Study Guide Answers
- Interactive Elements Motion Two Dimensions Study Guide Answers

8. Staying Engaged with Motion Two Dimensions Study Guide Answers

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Motion Two Dimensions Study Guide Answers

9. Balancing eBooks and Physical Books Motion Two Dimensions Study Guide Answers

- Benefits of a Digital Library
- Creating a Diverse Reading Collection Motion Two Dimensions Study Guide Answers

10. Overcoming Reading Challenges

- Dealing with Digital Eye Strain
- Minimizing Distractions
- Managing Screen Time

11. Cultivating a Reading Routine Motion Two Dimensions Study Guide Answers

- Setting Reading Goals Motion Two Dimensions Study Guide Answers
- Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Motion Two Dimensions Study Guide Answers

- Fact-Checking eBook Content of Motion Two Dimensions 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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