

Projectile Motion Worksheet

Answer the following questions on a separate piece of paper. In all problems, ignore the effects of air resistance and use $g = 9.8 \text{ m/s}^2$.

1. A stone is thrown horizontally at 15 m/s from the top of a cliff 44 meters high. How far from the base does the stone hit the ground? $d_x = 45 \text{ m}$
2. A steel ball rolls with constant velocity across a tabletop 0.950 m high. It rolls off and hits the ground 0.352 meters from the edge of the table. How fast was the ball rolling when it left the table? $v_x = .80 \frac{\text{m}}{\text{s}}$
3. A football player kicks a football from ground level with an initial velocity of 27.0 m/s , 30° above the horizontal.
 - a. What is the maximum height the ball attained? $d_{y_{\text{max}}} = 9.28 \text{ m}$
 - b. How long did it take the ball to return to the launching height? $t = 2.76 \text{ sec}$
 - c. How far away did it land? $d_x = 64.5 \text{ m}$
4. A ball is launched with an initial velocity of 4.47 m/s at an angle of 66° above the horizontal.
 - a. What is the maximum height the ball attained? $.85 \text{ m} = d_y$
 - b. How long did it take the ball to return to the launching height? $t = .83 \text{ sec}$
 - c. How far away did it land? $d_x = 1.51 \text{ m}$
5. A physics book slides off a horizontal table top with a speed of 1.10 m/s . It strikes the floor in 0.350 s . Find:
 - a. The height of the table above the floor. $d_y = .40 \text{ m}$
 - b. The horizontal distance from the edge of the table to the point where the book strikes the floor. $d_x = .38 \text{ m}$
6. A pistol that fires a signal flare gives the flare an initial speed of 120 m/s . If the flare is fired at an angle of 55° above the horizontal on the level salt flats of Utah, how far away will it land? $d_x = 1380 \text{ m}$
 - a. If the flare is fired on the moon, where $g = 1.6 \text{ m/s}^2$, how far away will it land? $d_x = 8450 \text{ m}$

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Table of Contents Answers In Motion Llc

1. Understanding the eBook Answers In Motion Llc
 - The Rise of Digital Reading Answers In Motion Llc
 - Advantages of eBooks Over Traditional Books
2. Identifying Answers In Motion Llc
 - 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 Answers In Motion Llc
 - User-Friendly Interface
4. Exploring eBook Recommendations from Answers In Motion Llc
 - Personalized Recommendations
 - Answers In Motion Llc User Reviews and Ratings
 - Answers In Motion Llc and Bestseller Lists
5. Accessing Answers In Motion Llc Free and Paid eBooks
 - Answers In Motion Llc Public Domain eBooks
 - Answers In Motion Llc eBook Subscription Services
 - Answers In Motion Llc Budget-Friendly Options
6. Navigating Answers In Motion Llc eBook Formats

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